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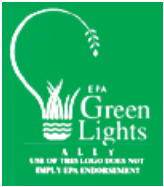
# Lamp Products Catalog 2006



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EPA does not endorse any product or service.

This latest edition of the GE product catalog has been updated to help you more easily select the GE lighting products that best meet your needs.

Technical data in this catalog (life, lumens, wattage, etc.) are nominal values, subject to manufacturer's tolerances. All technical data in this catalog is based on laboratory tests conducted under controlled conditions. Performance of individual lamps may vary. Because of frequent design improvements, the values listed may not be current ratings. Technical bulletins may be issued from time to time if changes in ratings occur prior to the next catalog printing.

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For the most up-to-date, comprehensive product information, visit the GE Lighting website at [www.gelighting.com](http://www.gelighting.com).

## Introduction



### INTRODUCTION

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# ecomagination<sup>SM</sup>

The future can seem pretty intimidating: Our known reserves of oil and natural gas are expected to be depleted by 2045, the climate is changing, and more than a billion people lack clean water. At GE, we believe some of the world's most pressing challenges present an opportunity to do what we do best: **imagine and build innovative solutions that benefit our customers and society at large.**

As a global leader in energy, technology, manufacturing, and infrastructure, GE is uniquely suited to help solve environmental challenges, today and for generations to come. Our customers want a more prosperous, cleaner future. By harnessing our most abundant renewable resource - the imagination of our people - we can create that future with them. We are taking a new approach to solving some of our customers' toughest environmental problems.

**We call it ecomagination.**

## Impact of ecomagination:

*If every household in the U.S. replaced one 100-watt Incandescent light bulb with a GE compact fluorescent bulb equivalent in light output, over the bulb's life, we would save enough energy to power more than 1 million U.S. homes for an entire year.*

## Our Heritage, Our Future

We believe that better technology is the answer to our customers' environmental challenges. And we are confident we can find tomorrow's solutions to those challenges just as we have since the days of our founder, Thomas Edison.

Throughout our 127-year history, we have invented solutions to meet our customers' greatest needs. Over many years, we have developed one of the broadest ranges of environmentally advanced technologies. We will build on this legacy of success by researching and developing next-generation clean technologies. Our goal is to be a leader in bringing clean energy, air, and water and improved quality of life to all of the world's citizens.

## Producing Efficiency

ecomagination  
Products

All Screw-in CFLs  
Ultra T8 Lamps  
T5 Lamps  
UltraMax<sup>®</sup> Ballasts  
UltraStart<sup>™</sup> Ballasts  
Halogen-IR  
Diamond Precise<sup>®</sup>

On the way to certification  
CMH<sup>®</sup> Lamps



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## All ENERGY STAR CFLs

Starting on page 5-10

All Screw-in products

Energy Savings up to \$108\* per lamp

Up to 13x longer life

when using a 42 watt CFL to replace a 150W a-line



## Ultra T8 Lamps

Starting on page 4-9

- F28
- Watt-Miser®
- Hi Lumen

Energy Savings up to \$148\* per 4-lamp Fixture

All products Ecolux®, Available in CVG

when using a F28 & UltraMax® ballast to replace a Std. T12 system



## T5 Lamps

Starting on page 4-7

- High Efficiency
- High Output

Energy Savings up to \$132\* per 6-lamp Fixture

All products Ecolux®, Available in CVG

when using a T5 fixture to replace a Std. 400 Metal Halide system



## UltraMax® Ballasts

Starting on page 4-37

T8 Ballasts

Energy Savings up to \$148\* per 4-lamp Fixture

Multi-Voltage

when using a F28 & UltraMax® ballast to replace a Std. T12 system



## UltraMax® Ballasts

Starting on page 4-38

T5 & T8 Ballasts

Energy Savings up to \$148\* per 4-lamp Fixture

Programmed Start Multi-Voltage

when using a F28 & UltraStart™ ballast to replace a Std. T12 system



## Halogen-IR

Starting on page 2-5

- PAR38 HIR & XL
- PAR30 HIR & XL

Energy Savings up to \$13.20\* per lamp

Up to 6000 hour life

when using a Retail HIR™ to replace a Std. Halogen



## Diamond Precise®

Starting on page 2-9

Q21EMR16

Energy Savings up to \$14.50\* per lamp

Up to 2x Longer Life

when using a 21 watt Diamond Precise® to replace a 50R20



## On the way to certification

## CMH® Lamps

Starting on page 3-9

- 400 Watt
- 350 Watt
- 250 Watt

Energy Savings up to \$160.00\* per lamp

SPXX color – CRI 90+

when using a 350W & e-HID UltraMax™ ballast to replace a Std. 400 watt MH system



\* @ 10¢per kWh over life of lamps. Actual savings depends on specific lamps compared.

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## We've got the fastest way to slow this down.

Saving energy is good business. Energy-efficient lighting from GE may be the fastest, easiest way to slow your meter down and add dollars to your bottom line.

That's why GE has more than increased our product development investment with a clear goal to be the industry's energy-saving leader.

The result is a whole new line of leadership products, like the F28 UltraMax® system. Combining our 28-watt T-8 lamp with a high-efficiency UltraMax® ballast delivers up to 44% energy savings over T-12 systems. In some cases, pay back is less than a year.

The GE 42-watt compact fluorescent equals the light output of a 150-watt incandescent. That's a savings of 108 watts.

The new Retail HIR™ Halogen uses 27% less energy, with double the life of a standard halogen PAR.

Think your meter is spinning too fast?

**GE Lighting:**  
**Your #1 energy-saving choice**



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**27% Savings** replacing standard halogen PARs with the Retail HIR™ for accent, merchandising and general lighting.



**72% Savings** when you replace 150-watt incandescent lamps with our 42-watt CFL.



**44% Savings** when you replace T12 System with GE's Ultra Lamps and UltraMax® Ballast.



**50%+ Savings** when you replace standard PARs with GE ConstantColor® CMH® lamps.



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- Residential builders
- Automotive
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- TCLP test results
- IES photometric downloads
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- Simple energy estimator
- Lighting layout estimator
- Cost of waiting estimator

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Incandescent Lamps

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#### GENERAL INFORMATION

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|------------------|------|
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##### DECORATIVE

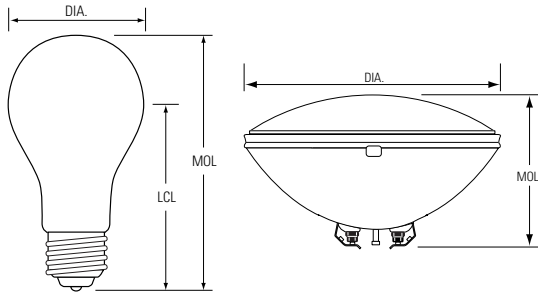
|                 |      |
|-----------------|------|
| 3 Watts .....   | 1-23 |
| 15 Watts .....  | 1-23 |
| 25 Watts .....  | 1-23 |
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## BULB IDENTIFICATION



DIA: Diameter of bulb at widest point.

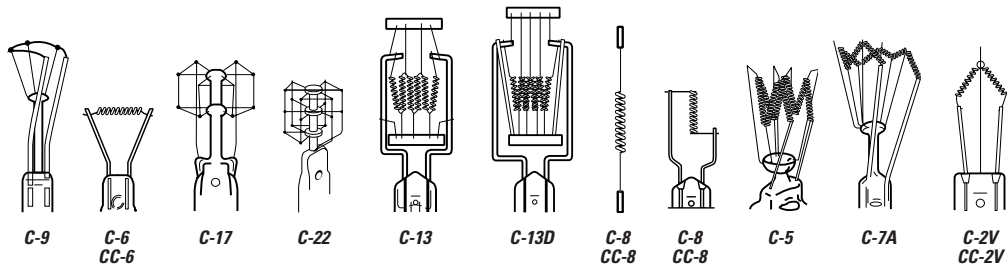
MOL: Maximum Overall Length including base or pins.

LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

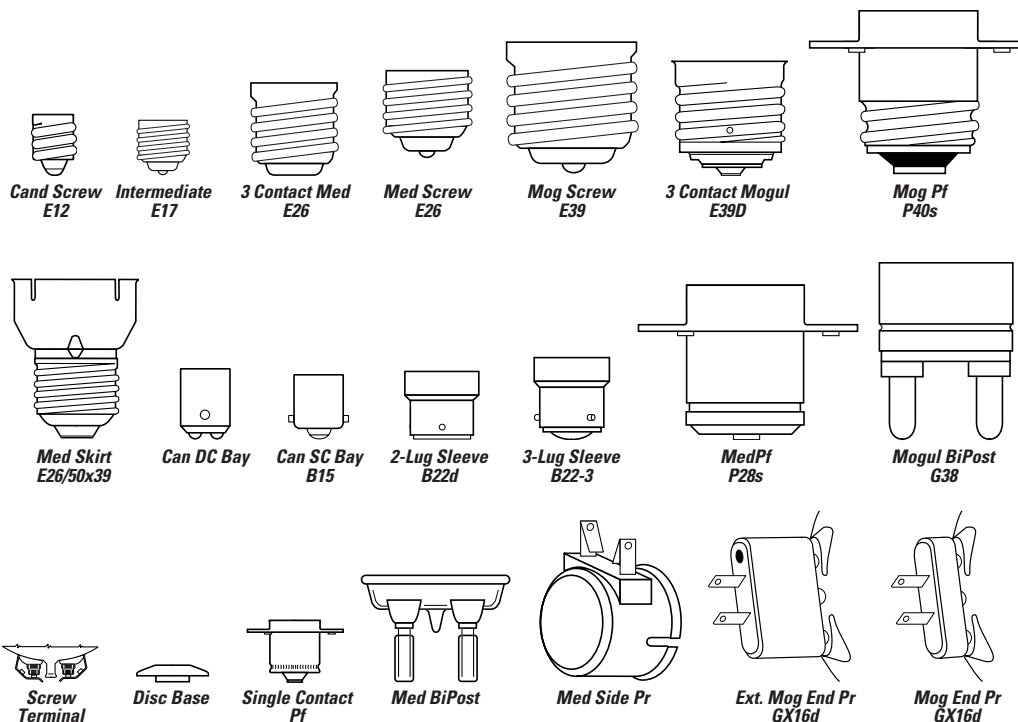
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

## FILAMENT IDENTIFICATION



## BASE IDENTIFICATION



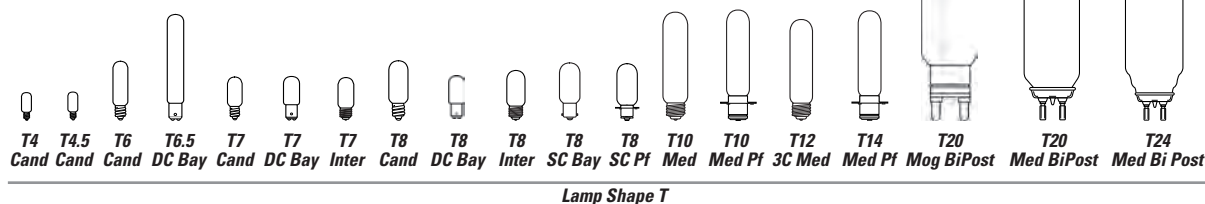
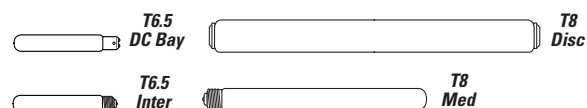
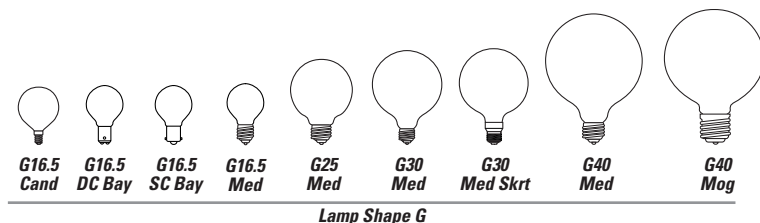
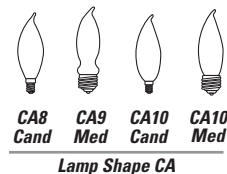
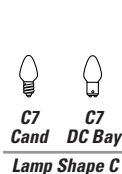
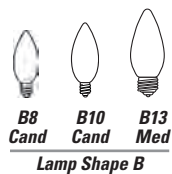
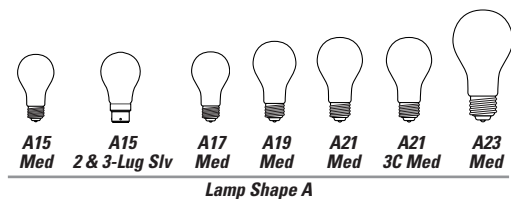
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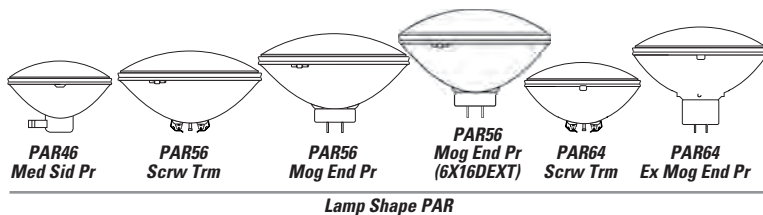
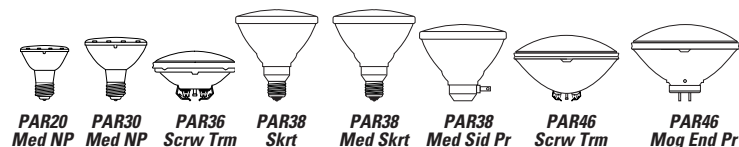
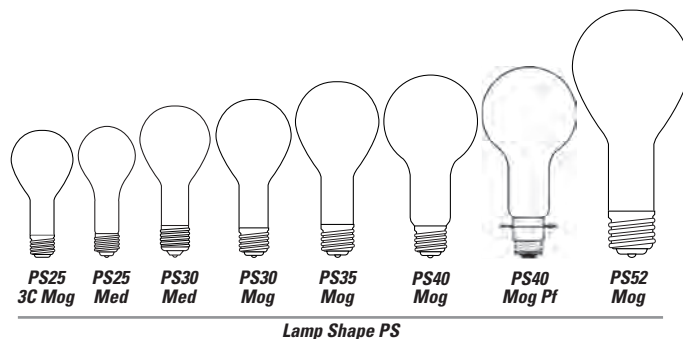
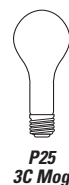
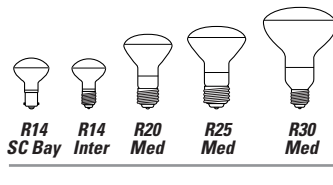
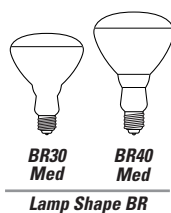
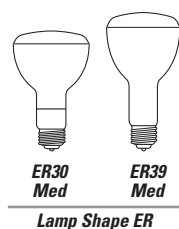
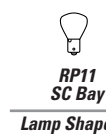
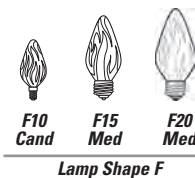
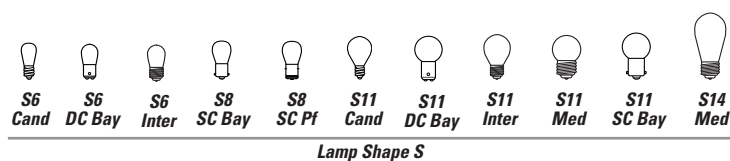


## Incandescent Lamps

### LAMP LOCATOR



Lamp Shape M





## INTRODUCTION

GE's incandescent lamps trace their ancestry to the world's first practical electric bulb, invented by Thomas Alva Edison, founder in 1879, of the company that became General Electric Company.

More than a century of research and development later, the present range of GE incandescent lamps represents the state of the art of lamps for residential and commercial use, as well as special purpose lamps for decorative or display applications.

In an incandescent lamp, light is generated by heating the filament to incandescence. The hotter the filament, the more efficient it is in converting electricity to light. However, when the filament operates hotter, its life is shortened so the design of each lamp is a balance between efficiency and life. This is why lamps of equal wattage may have different lumen ratings and different life ratings.

Incandescent lamps of similar size are commonly available with different wattage ratings. The fixture wattage limit should not be exceeded.

## PROTECTION FROM MOISTURE

When **HRG** (Hard Glass) appears in the Lamp Description column, the outer bulbs are made of special thermal-shock-resistant glass. However, sometimes external protection of the lamps is also needed to eliminate the chance of bulb breakage due to contact with water during operation. Footnotes will indicate when external protection is needed. Where **HRG** is not shown, the bulb glass is such that the lamps require protection from exposure to mist or condensation as well as direct contact with water during operation.

## RATED LIFE

Values are based on a large number of representative lamps under controlled conditions. Individual lamps or groups of lamps may vary from the Rated Life shown. Rated Life is a median value of life expectancy - the total operating time at which under normal conditions 50% of any large group of initially installed lamps are expected to be still burning.

| GE                                      | Osram/Sylvania          | Phillips               |
|-----------------------------------------|-------------------------|------------------------|
| INCANDESCENT BRAND NAME CROSS-REFERENCE |                         |                        |
| Reveal®                                 | —                       | —                      |
| Bug-Lite                                | Bug Lite                | Bug-A-Way              |
| Cool Beam                               | Cool-Lux                | Cool Beam              |
| covRguard®                              | Safeline                | Silicone Coated        |
| Saf-T-Gard®                             | —                       | —                      |
| Soft Pink                               | Soft Pink               | Softone Pastels        |
| Soft White Miser®                       | Energy Saver Soft White | Energy Saving          |
| Extended Service                        | Excel-Line®             | Extended Service       |
| Plant Light                             | Spot-GRO                | Agro-Lite              |
| Long Life Soft White                    | Double Life™ Soft White | Longer Life Soft White |
| Lumiline                                | Lumiline                | Philinea               |
| Party Light                             | —                       | —                      |
| Survivor™                               | —                       | Industrial Service     |
| Watt-Miser®                             | Super Saver®            | Econ-o-Watt            |
| Watt-Miser® PAR                         | Super Saver Par®        | Econ-o-Par             |
| Watt-Miser® Plus                        | Super Saver Excel®      | Extended Service       |

**ATTENTION:** This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE brands. Individual lamp manufacturers' product offerings and performance specifications should be consulted. Lamp performance may be affected by environmental conditions, and/or auxiliary equipment.

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## Incandescent Lamps

### GE REVEAL® LIGHT BULBS

Superior light quality over regular incandescent that:

- Produces "clean, beautiful light™" for more vibrant colors
- Contains Neodymium glass that filters out dulling yellow rays
- Is available in 40-100 watt A-Line
- Also available for nearly every application from candle shapes to flood lights
- A color enhanced full spectrum light bulb

### GE SURVIVOR™ A-LINE BULBS

Built to last, even under many "rough" service conditions...

- Five filament support design protects against early burnouts caused by bumps, jars and vibration
- Longer life... lasts 3000 hours. 3-4 times longer than standard bulbs\*
- Popular wattages available
- Economically priced
- Best A-line choice for general commercial/industrial use

\* Survivor bulbs provide a 300%-400% increase in life with 68%-75% of the light of ordinary bulbs.

### GE COVRGUARD® BULBS

- Teflon®\* coating is shatter and weather-resistant
- Resists breakage from heat and thermal shock that can occur from water, sleet, snow, molten solder, and weld spatter
- Wide choice of wattages and voltages
- Rough service version available for extra tough conditions

#### Uses:

Construction sites, loading docks, string lighting, elevators, trouble light, metal fabricating, food processing areas, farms.

\* Teflon is a registered trademark of DuPont.

### GE LONG LIFE FLOODLIGHT OR SPOTLIGHT

- 25% longer life than standard reflectors. Ideal for use in high ceilings and hard to reach track lighting.
- Easy replacement – same length and width as standard R bulbs
- Some lumen loss from standard reflectors (See listing for lumen values)
- Available in 45w floodlight and 65w floodlight and spotlight

#### Uses:

Down lighting, display lighting, accent lighting, wall washing. Wherever standard reflector bulbs are used.



*Survivor™*



*covRguard®*



*Long Life  
BR30 Reflector  
Floodlight or  
Spotlight*



## HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Incandescent lamp specifications and when ordering products. Within this product line, lamps are divided by wattage. Within wattage, lamps are listed alphabetically by bulb shape.

| Order Code:                                                                                                                               |      | LCL in.:                                                                                            |       | Life-Hours:                                                                                                                                                                                                                                           |       | Light Output-Lumens:                                                       |        | Color Temperature - Kelvins (K):                                                                                                 |     | Approximate CBCP (Center Beam Candlepower):                                                                                   |                | Approximate Beam Spread:                                                                                                                          |             | Additional Information:                                 |                        |
|-------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------|------------------------|
| It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.                       |      | Distance between the center of the filament and the Light Center Length reference plane, in inches. |       | Life (as defined by FTC Lamp Label Rules) is rated life in hours. (see page 1-26).                                                                                                                                                                    |       | Light output (as defined by FTC Lamp Label Rules) is rated average lumens. |        | "Warmth" or "Coolness" of the lamp, measured in Kelvins (K). The higher the temperature, the cooler the appearance of the light. |     | For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam. |                | For reflector type lamps. The total angle of the directed beam (in degrees) to where the intensity of the beam falls to 50% of the maximum value. |             | Typical application and/or other important information. |                        |
| Energy Used-Nominal Watts:                                                                                                                |      | MOL in.:                                                                                            |       | Filament Design:                                                                                                                                                                                                                                      |       | Description:                                                               |        | Base:                                                                                                                            |     | Case Quantity:                                                                                                                |                | Volts:                                                                                                                                            |             |                                                         |                        |
| Energy Used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000. |      | Maximum Overall Length in inches.                                                                   |       | Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement. |       | The lamp's identification code.                                            |        | The type of base.                                                                                                                |     | Number of product units packed in a case.                                                                                     |                | Lamp data is based on operation at rated voltage.                                                                                                 |             |                                                         |                        |
| Shape                                                                                                                                     | Base | Order Watts                                                                                         | Code  | Description                                                                                                                                                                                                                                           | Volts | Qty.                                                                       | Design | MOL                                                                                                                              | LCL | Rated Life Hours                                                                                                              | Lumens Initial | Color Temp. K                                                                                                                                     | Beam Spread | Footnotes                                               | Additional Information |
| INCANDESCENT LAMPS                                                                                                                        |      |                                                                                                     |       |                                                                                                                                                                                                                                                       |       |                                                                            |        |                                                                                                                                  |     |                                                                                                                               |                |                                                                                                                                                   |             |                                                         |                        |
| 65 WATTS                                                                                                                                  |      |                                                                                                     |       |                                                                                                                                                                                                                                                       |       |                                                                            |        |                                                                                                                                  |     |                                                                                                                               |                |                                                                                                                                                   |             |                                                         |                        |
| BR30                                                                                                                                      | Med  | 65                                                                                                  | 26640 | 75R30/FL/65WM/A                                                                                                                                                                                                                                       | 120   | 30                                                                         |        |                                                                                                                                  |     |                                                                                                                               |                |                                                                                                                                                   | 2A, 5E, 9K  |                                                         | Reflector - Amber      |



### 75 R30 / FL / 65WM / A

Identifies the lamp's wattage.

Identifies the lamp's shape.

Identifies the lamp as a floodlight.

Identifies the lamp as a Watt-Miser®

Identifies this lamp as amber colored.

### WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify the lamp wattage.
2. Measure bulb diameter using ruler in appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 1-2.
4. Find your lamp in the table containing the bulb wattage, then match the shape, size and base, which are all listed alphabetically.

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## Incandescent Lamps

| Shape                     | Base | Order Watts Code | Description             | Volts | Case Qty. | Filament Design | MOL  | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information        |
|---------------------------|------|------------------|-------------------------|-------|-----------|-----------------|------|------|------------------|----------------|---------------|------|-------------|-----------|-------------------------------|
| <b>INCANDESCENT LAMPS</b> |      |                  |                         |       |           |                 |      |      |                  |                |               |      |             |           |                               |
| <b>3 WATTS</b>            |      |                  |                         |       |           |                 |      |      |                  |                |               |      |             |           |                               |
|                           | S6   | Cand             | 3 11098 3S6/5 24PK      | 130   | 24        | C-7A            | 1.87 | 1.37 | 3000             | 11             |               |      |             |           | Clear-Indicator               |
| <b>4 WATTS</b>            |      |                  |                         |       |           |                 |      |      |                  |                |               |      |             |           |                               |
|                           | C7   | Cand             | 4 16001 4C7/W CD/2      | 120   | 240       | C-7A            | 2.12 |      | 3000             |                |               |      |             | 2E        | White-Long Life Night Light   |
|                           |      |                  | 20572 4C7/S CD/4        | 120   | 120       | C-7A            | 2.12 |      | 2000             |                |               |      |             | 2E        | Standard Clear Night Light    |
|                           |      |                  | 20573 4C7/W/S CD/4      | 120   | 120       | C-7A            | 2.12 |      | 2000             |                |               |      |             | 2E        | Standard White Night Light    |
|                           |      |                  | 26222 4C7/PK-CD2 6PK    | 120   | 240       | C-7A            | 2.12 |      | 3000             |                |               |      |             | 2E        | Long Life Pink Night Light    |
|                           |      |                  | 26223 4C7/BL-CD2 6PK    | 120   | 240       | C-7A            | 2.12 |      | 3000             |                |               |      |             | 2E        | Long Life Blue Night Light    |
|                           |      |                  | 43050 4C7 CD/2          | 120   | 240       | C-7A            | 2.12 |      | 3000             |                |               |      |             | 2E        | Long Life Clear Night Light   |
| <b>6 WATTS</b>            |      |                  |                         |       |           |                 |      |      |                  |                |               |      |             |           |                               |
|                           | S6   | Cand             | 6 11316 6S6 24PK        | 12    | 24        | C-2V            | 1.87 | 1.37 | 1500             | 50             |               |      |             |           | Clear-Indicator               |
|                           |      |                  | 11329 6S6               | 24    | 240       | C-2V            | 1.87 | 1.37 | 1500             | 50             |               |      |             |           | Clear-Indicator               |
|                           |      |                  | 11331 6S6 24PK          | 30    | 24        | C-2V            | 1.87 | 1.37 | 1500             | 50             |               |      |             |           | Clear-Train                   |
|                           |      |                  | 43397 6S6 BB            | 32    | 24        | C-2V            | 1.87 | 1.37 | 1500             | 45             |               |      |             |           | Clear-Train                   |
|                           |      |                  | 11367 6S6 TRAY          | 120   | 240       | C-7A            | 1.87 | 1.37 | 1500             | 41             |               |      |             |           | Clear-Indicator. 12-Lamp Tray |
|                           |      |                  | 11577 6S6/3             | 120   | 240       | C-7A            | 1.87 | 1.37 | 5000             | 23             |               |      |             |           | Clear-Signal Light            |
|                           |      |                  | 15820 6S6 CARD2         | 120   | 240       | C-7A            | 1.87 | 1.37 | 1500             | 41             |               |      |             |           | Clear-Indicator               |
|                           |      |                  | 11369 6S6 TRAY          | 130   | 240       | C-7A            | 1.87 | 1.37 | 1500             | 41             |               |      |             |           | Clear-Indicator. 12-Lamp Tray |
|                           |      |                  | 11372 6S6               | 145   | 240       | C-7A            | 1.87 | 1.37 | 1500             | 41             |               |      |             |           | Clear-Indicator               |
|                           |      |                  | 11374 6S6               | 155   | 240       | C-7A            | 1.87 | 1.37 | 1500             | 41             |               |      |             |           | Clear-Indicator               |
|                           |      | DC Bay           | 6 11357 6S6DC 24PK      | 75    | 24        | C-7A            | 1.81 | 1.43 | 1500             | 45             |               |      |             |           | Clear-Indicator               |
|                           |      |                  | 11592 6S6DC TRAY        | 120   | 240       | C-7A            | 1.81 | 1.43 | 1500             | 41             |               |      |             |           | Clear-Indicator. 12-Lamp Tray |
|                           |      |                  | 11594 6S6/DC TRAY       | 130   | 240       | C-7A            | 1.81 | 1.43 | 1500             | 41             |               |      |             |           | Clear-Indicator. 12-Lamp Tray |
|                           |      |                  | 11609 6S6DC 24PK        | 145   | 24        | C-7A            | 1.81 | 1.43 | 1500             | 41             |               |      |             |           | Clear-Indicator. 12-Lamp Tray |
|                           |      | Inter            | 6 11660 6S6/7 TRAY 24PK | 120   | 24        | C-7A            | 1.81 | 1.06 | 1500             | 41             |               |      |             |           | Clear-Indicator. 12-Lamp Tray |
|                           | T4.5 | Cand             | 6 11764 6T41/2/1        | 130   | 100       | C-7A            | 1.87 | 1.31 | 1500             | 42             |               |      |             |           | Clear-Indicator               |
| <b>7 WATTS</b>            |      |                  |                         |       |           |                 |      |      |                  |                |               |      |             |           |                               |
|                           | C7   | Cand             | 7 11779 7C7 TRAY        | 120   | 240       | C-7A            | 2.12 |      | 3000             | 46             |               |      |             |           | Clear-Indicator. 12-Lamp Tray |
|                           |      |                  | 11815 7C7/W TRAY        | 120   | 240       | C-7A            | 2.12 |      | 3000             | 36             |               |      |             |           | White-Indicator. 12-Lamp Tray |
|                           |      |                  | 11792 7C7 TRAY          | 130   | 240       | C-7A            | 2.12 |      | 3000             | 46             |               |      |             |           | Clear-Indicator. 12-Lamp Tray |
| <b>7.5 WATTS</b>          |      |                  |                         |       |           |                 |      |      |                  |                |               |      |             |           |                               |
|                           | S11  | Med              | 7.5 11847 7 1/2S TRAY   | 120   | 240       | C-9             | 2.25 |      | 1400             | 53             |               |      |             |           | Clear-12-Lamp Tray            |
|                           |      |                  | 41267 7 1/2S/CW CARD    | 120   | 240       | C-9             | 2.25 |      | 1400             | 39             |               |      |             | 2E        | White                         |
|                           |      |                  | 11848 7 1/2S TRAY       | 130   | 240       | C-9             | 2.25 |      | 1400             | 53             |               |      |             |           | Clear-12-Lamp Tray            |
|                           |      |                  | 11922 7 1/2S/CW TRAY    | 130   | 240       | C-9             | 2.25 |      | 1400             | 39             |               |      |             |           | White-12-Lamp Tray            |
| <b>10 WATTS</b>           |      |                  |                         |       |           |                 |      |      |                  |                |               |      |             |           |                               |
|                           | S6   | Cand             | 10 12041 10S6/10        | 230   | 24        | C-7A            | 1.87 | 1.37 | 1500             | 66             |               |      |             |           | Clear-Indicator               |
|                           |      |                  | 12050 10S6/10 24PK      | 250   | 24        | C-7A            | 1.87 | 1.37 | 1500             | 66             |               |      |             |           | Clear-Indicator               |
|                           |      | DC Bay           | 10 12060 10S6/10DC 24PK | 230   | 24        | C-7A            | 1.87 | 1.87 | 1500             | 66             |               |      |             |           | Clear-Indicator               |
|                           | S11  | Cand             | 10 12249 10S11/79       | 120   | 120       | C-7A            | 2.25 | 1.56 | 1000             | 80             |               |      |             |           | Clear-Indicator               |
|                           |      | Inter            | 10 12188 10S11N/F       | 120   | 120       | C-7A            | 2.31 | 1.62 | 1000             | 79             |               |      |             |           | Frost-Appliance               |
|                           |      |                  | 12185 10S11N            | 130   | 120       | C-7A            | 2.31 | 1.62 | 1000             | 80             |               |      |             |           | Clear-Sign                    |



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| Shape                                                                              | Base | Order Watts Code | Description                   | Volts | Case Qty. | Filament Design | MOL  | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes  | Additional Information                                           |
|------------------------------------------------------------------------------------|------|------------------|-------------------------------|-------|-----------|-----------------|------|------|------------------|----------------|---------------|------|-------------|------------|------------------------------------------------------------------|
| INCANDESCENT LAMPS (CONTINUED)                                                     |      |                  |                               |       |           |                 |      |      |                  |                |               |      |             |            |                                                                  |
| 11 WATTS                                                                           |      |                  |                               |       |           |                 |      |      |                  |                |               |      |             |            |                                                                  |
|    | S14  | Med              | 11 12575 11S14                | 130   | 120       | C-9             | 3.5  | 2.5  | 3000             | 76             |               |      |             |            | Clear-Sign                                                       |
|                                                                                    |      |                  | 12589 11S14/IF                | 130   | 120       | C-9             | 3.5  | 2.5  | 3000             | 76             |               |      |             |            | I.F.-Sign                                                        |
|                                                                                    |      |                  | 12621 11S14/R                 | 130   | 120       | C-9             | 3.5  | 2.5  | 3000             |                |               |      |             |            | Red-Sign                                                         |
|                                                                                    |      |                  | 12632 11S14/Y                 | 130   | 120       | C-9             | 3.5  | 2.5  | 3000             |                |               |      |             |            | Yellow-Sign                                                      |
| 12-13.5 WATTS                                                                      |      |                  |                               |       |           |                 |      |      |                  |                |               |      |             |            |                                                                  |
|    | S8   | SC Bay           | 12 10690 12S8/93T-6PK CD/2    | 12    | 240       | C-2R            | 2    | 1.25 | 1000             | 200            |               |      |             | 2G         | Low Voltage, High Intensity                                      |
|    | S11  | SC Bay           | 13.5 12649 13/3 1/2 S11/95    | 10    | 120       | CC-6 C-12       | 2.37 | 1.25 | 1000             | 180            |               |      |             |            | Clear-Railway Signal Light, Filament in Multiple                 |
| 15 WATTS                                                                           |      |                  |                               |       |           |                 |      |      |                  |                |               |      |             |            |                                                                  |
|    | A15  | Med              | 15 12784 15A                  | 34    | 120       | C-9             | 3.56 | 2.37 | 1000             | 180            |               |      |             | 5A         | I.F.-Train                                                       |
|                                                                                    |      |                  | 41270 15A/W 24PK              | 120   | 120       | C-9             | 3.5  | 2.37 | 2500             | 110            |               |      |             |            | Soft White                                                       |
|                                                                                    |      |                  | 12658 15A15                   | 130   | 120       | C-9             | 3.5  | 2.37 | 2500             | 115            |               |      |             |            | Inside Frost                                                     |
|                                                                                    |      |                  | 16215 15A15/CL/BB             | 130   | 120       | C-9             | 3.5  | 2.37 | 3000             | 110            |               |      |             |            | Clear-Sign                                                       |
|    | R14  | SC Bay           | 15 33404 15R14SC/SP           | 12    | 120       | CC-8            | 2.62 |      | 2000             | 120            |               |      |             |            | Reflector Spot                                                   |
|    | S11  | Cand             | 15 13210 15S11/13             | 120   | 120       | C-7A            | 2.25 | 1.56 | 750              | 115            |               |      |             |            | Clear                                                            |
|                                                                                    |      | DC Bay           | 15 13188 15S11/3DC            | 75    | 120       | C-9             | 2.37 | 1.25 | 1000             | 138            |               |      |             |            | Clear-Train                                                      |
|    |      | Med              | 15 13291 15S11/102            | 120   | 240       | C-7A            | 2.25 |      | 400              | 120            |               |      |             |            | Clear-Refrigerator, 12-Lamp Tray                                 |
|   | S14  | Med              | 15 42590 15S14/FBB            | 34    | 120       | C-9             | 3.5  | 2.5  | 1000             | 144            |               |      |             |            | Frost-Locomotive Cab                                             |
|                                                                                    |      |                  | 11137 15S14/GR/CL/8           | 130   | 120       | C-9             | 3.5  | 2.5  | 8000             | 90             |               |      |             |            | Clear-Sign. Group Replacement                                    |
|  | T6   | Cand             | 15 13390 15T6                 | 120   | 60        | C-7A            | 3.06 | 1.56 | 2000             | 107            |               |      |             |            | Clear-Exit                                                       |
|                                                                                    |      |                  | 13402 15T6                    | 145   | 60        | C-7A            | 3.06 | 1.56 | 1500             | 102            |               |      |             |            | Clear-Exit                                                       |
|                                                                                    |      |                  | 22114 15T6C-CD                | 145   | 120       | C-7A            | 3.06 | 1.56 | 1500             | 102            |               |      |             |            | Clear-Exit. Blister Card                                         |
|  | T7   | Cand             | 17 13494 15T7C                | 120   | 120       | C-7A            | 2.25 | 1.5  | 3000             | 100            |               |      |             |            | Clear-Signal Light. Appliance                                    |
|                                                                                    |      | DC Bay           | 17 35154 15T7DC CARD          | 120   | 240       | C-7A            | 2.25 | 1.31 |                  | 100            |               |      |             |            | Clear-Appliance, 12-Pack                                         |
|                                                                                    |      | Inter            | 17 35153 15T7N CARD           | 120   | 240       | C-7A            | 2.25 | 1.56 |                  | 100            |               |      |             |            | Clear-Appliance                                                  |
|  | T10  | Med              | 15 34407 15T10 24PK           | 120   | 24        | C-8             | 5.62 |      | 2500             | 120            |               |      |             |            | Clear-Aquarium                                                   |
| 15/135/150 WATTS                                                                   |      |                  |                               |       |           |                 |      |      |                  |                |               |      |             |            |                                                                  |
|  | A21  | 3C Med           | 15 23068 15/150/SECURITY 12PK | 120   | 60        | C-2R            | 5.25 | 3.87 | 1200             | 75             |               |      |             | 2B, 9C, 9J | Security 3-Way, Soft White                                       |
|                                                                                    |      |                  | 135                           | 120   |           | CC-8            |      |      |                  | 2080           |               |      |             |            |                                                                  |
|                                                                                    |      |                  | 150                           | 120   |           |                 |      |      |                  | 2155           |               |      |             |            |                                                                  |
| 18 WATTS                                                                           |      |                  |                               |       |           |                 |      |      |                  |                |               |      |             |            |                                                                  |
|  | S11  | SC Bay           | 18 13655 18S11/1SC            | 10    | 120       | CC-6            | 2.37 | 1.25 | 2000             | 200            |               |      |             |            | Clear-Railway Signal Light                                       |
|                                                                                    |      |                  | 13659 18/3 1/2S11SC           | 10    | 120       | CC-6            | 2.37 | 1.25 | 1000             | 300            |               |      |             |            | Clear-Railway Signal Light. C-12 Filament in multiple            |
| 20 WATTS                                                                           |      |                  |                               |       |           |                 |      |      |                  |                |               |      |             |            |                                                                  |
|  | S11  | SC Bay           | 20 19549 20S11/1SC            | 10    | 120       | CC-6            | 2.37 | 1.25 | 3000             |                |               |      |             |            | Railway Signal Light                                             |
|                                                                                    |      | DC Bay           | 20 34241 20T61/2DC/F          | 120   | 60        | C-8             | 5.56 |      | 5000             | 90             |               |      |             |            | Frost-Exit Light                                                 |
|                                                                                    |      | Inter            | 20 34272 20T61/2/F            | 120   | 60        | C-8             | 5.5  |      | 7000             | 90             |               |      |             |            | Frost-Exit Light                                                 |
| 21.5 WATTS                                                                         |      |                  |                               |       |           |                 |      |      |                  |                |               |      |             |            |                                                                  |
|  | A15  | 2-Lug Slv        | 21.5 13644 18/3 5A15/5        | 10    | 120       | CC-6            | 3.75 | 2.21 | 1500             | 235            |               |      |             |            | Clear-Railway Signal Light CC-6 Filament in multiple, 2-Lug Base |
| 25 WATTS                                                                           |      |                  |                               |       |           |                 |      |      |                  |                |               |      |             |            |                                                                  |
|  | A15  | Med              | 25 13744 25A15/RS             | 75    | 120       | C-9             | 3.46 | 2.5  | 1000             | 250            |               |      |             | 5A         | I.F.-Train. Rough Service                                        |

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| Shape                                 | Base   | Order Watts | Code  | Description     | Volts         | Case Qty. | Filament Design | MOL   | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP  | Beam Spread | Footnotes | Additional Information             |
|---------------------------------------|--------|-------------|-------|-----------------|---------------|-----------|-----------------|-------|------|------------------|----------------|---------------|-------|-------------|-----------|------------------------------------|
| <b>INCANDESCENT LAMPS (CONTINUED)</b> |        |             |       |                 |               |           |                 |       |      |                  |                |               |       |             |           |                                    |
| <b>25 WATTS (CONTINUED)</b>           |        |             |       |                 |               |           |                 |       |      |                  |                |               |       |             |           |                                    |
|                                       | Med    | 25          | 13769 | 25A             | 12            | 120       | C-6             | 3.87  | 2.56 | 1000             | 378            |               |       |             | 5A        | Inside Frost                       |
|                                       |        |             | 13784 | 25A             | 34            | 120       | C-9             | 3.87  | 2.56 | 1000             | 390            |               |       |             | 5A        | I.F.-Train                         |
|                                       |        |             | 15064 | 25A/CL 24PK     | 120           | 120       | CC-6            | 4.25  | 2.5  | 2500             | 215            |               |       |             |           | Clear                              |
|                                       |        |             | 16553 | 25A/TG-CD1 3PK  | 120           | 12        | C-9             | 3.87  | 2.37 | 2000             |                |               |       |             |           | Transp. Green-Party Light          |
|                                       |        |             | 16555 | 25A/TR-CD1 3PK  | 120           | 12        | C-9             | 3.87  | 2.37 | 2000             |                |               |       |             |           | Transp. Red-Party Light            |
|                                       |        |             | 47625 | 25A/TB-CD1 3PK  | 120           | 12        | C-9             | 3.87  | 2.37 | 2000             |                |               |       |             |           | Transp. Blue-Party Light           |
|                                       |        |             | 16333 | 25A/TP-CD 6PK   | 120           | 24        | C-9             | 3.87  | 2.37 | 2000             |                |               |       |             |           | Transp. Purple-Party Light         |
|                                       |        |             | 47627 | 25A/TPK-CD1 3PK | 120           | 12        | C-9             | 3.87  | 2.37 | 2000             |                |               |       |             |           | Transp. Pink-Party Light           |
|                                       |        |             | 16335 | 25A/TY-CD 6PK   | 120           | 24        | C-9             | 3.87  | 2.37 | 2000             |                |               |       |             |           | Transp. Yellow-Party Light         |
|                                       |        |             | 22730 | 25A/TPK 6PK     | 120           | 120       | C-9             | 3.87  | 2.37 | 2000             |                |               |       |             |           | Transp. Pink-Party Light           |
|                                       |        |             | 22731 | 25A/TP 6 PK     | 120           | 120       | C-9             | 3.87  | 2.37 | 2000             |                |               |       |             |           | Transp. Purple-Party Light         |
|                                       |        |             | 22732 | 25A/TE 6PK      | 120           | 120       | C-9             | 3.87  | 2.37 | 2000             |                |               |       |             |           | Transp. Teal-Party Light           |
|                                       |        |             | 33486 | 25A/RS 24PK     | 120           | 24        | C-17            | 3.87  | 2.56 | 1000             | 190            |               |       |             | 2A, 5E    | I.F.-Rough Service                 |
|                                       |        |             | 37577 | 25A/B 24PK      | 120           | 24        | C-9             | 3.87  | 2.37 | 2500             |                |               |       |             |           | Blue                               |
|                                       |        |             | 37578 | 25A/G 24PK      | 120           | 24        | C-9             | 3.87  | 2.37 | 2500             |                |               |       |             |           | Green                              |
|                                       |        |             | 37579 | 25A/R 24PK      | 120           | 24        | C-9             | 3.87  | 2.37 | 2500             |                |               |       |             |           | Red                                |
|                                       |        |             | 37793 | 25A/Y 24PK      | 120           | 24        | C-9             | 3.87  | 2.37 | 2500             |                |               |       |             |           | Yellow                             |
|                                       |        |             | 40320 | 25A/O-24PK      | 120           | 24        | C-9             | 3.87  | 2.37 | 2500             |                |               |       |             |           | Orange                             |
|                                       |        |             | 41272 | 25A/W 24PK      | 120           | 120       | CC-6            | 4.25  | 2.5  | 2500             | 210            |               |       |             |           | Soft White                         |
|                                       |        |             | 46645 | 25A/SG CD/PQ1/5 | 120           | 25        | CC-6            | 4.25  | 2.5  | 1500             |                |               |       |             |           | Stained Glass                      |
|                                       |        |             | 49724 | 25A/TB 6PK      | 120           | 120       | C-9             | 3.87  | 2.37 | 2000             |                |               |       |             |           | Transp. Blue-Party Light           |
|                                       |        |             | 49725 | 25A/TG 6PK      | 120           | 120       | C-9             | 3.87  | 2.37 | 2000             |                |               |       |             |           | Transp. Green-Party Light          |
|                                       |        |             | 49727 | 25A/TR 6PK      | 120           | 120       | C-9             | 3.87  | 2.37 | 2000             |                |               |       |             |           | Transp. Red-Party Light            |
|                                       |        |             | 49728 | 25A/TY 6PK      | 120           | 120       | C-9             | 3.87  | 2.37 | 2000             |                |               |       |             |           | Transp. Yellow-Party Light         |
|                                       |        |             | 13992 | 25A/CL          | 130           | 120       | CC-6            | 4.25  | 2.5  | 2500             | 215            |               |       |             |           | Clear                              |
|                                       |        |             | 35613 | 25A             | 130           | 120       | CC-6            | 4.25  | 2.5  | 2500             | 215            |               |       |             |           | Inside Frost                       |
|                                       |        |             | 13879 | 25A             | 250           | 120       | C-17A           | 3.87  | 2.56 | 1000             | 220            |               |       |             | 5A        | Inside Frost                       |
|                                       | PAR36  | Scrw Term   | 25    | 14553           | 25PAR36       | 6         | 12              | C-6   | 2.75 | 1000             | 130            | 3000          | 19700 | 5           |           | Pin Spot. Filament Shield          |
|                                       |        |             | 25    | 14554           | 25PAR36/NSP   | 12        | 12              | C-6   | 2.75 | 2000             | 150            |               | 2600  | 9           |           | Narrow Spot-Filament Shield        |
|                                       |        |             | 25    | 14555           | 25PAR 36WFL   | 12        | 12              | C-6   | 2.75 | 2000             | 150            |               | 360   |             |           | Wide Flood-Filament Shield         |
|                                       |        |             | 25    | 14556           | 25 PAR36 VWFL | 12        | 12              | C-6   | 2.75 | 2000             | 150            |               | 160   | 55          |           | Very Wide Flood. Filament Shield   |
|                                       | PAR46  | Scrw Term   | 25    | 14562           | 25PAR46       | 6         | 12              | C-6   | 3.75 | 1000             | 140            |               | 55000 |             |           | Pin Spot. Filament Shield          |
|                                       | R14    | Inter       | 25    | 39156           | 25R14N        | 120       | 120             | CC-2V | 2.56 | 1500             |                |               |       |             | 5E        | Reflector-Light Inside Frost       |
|                                       |        |             | 25    | 18230           | 25R14N        | 130       | 120             | CC-2V | 2.56 | 1500             |                |               |       |             | 5E        | Reflector-Light Inside Frost       |
|                                       | SC Bay |             | 25    | 33405           | 25R14SC/SP    | 12        | 120             | CC-8  | 2.62 | 2000             |                |               |       |             |           | Reflector Spot, Light I.F.         |
|                                       | S11    | Cand        | 25    | 14585           | 25S11/2C      | 120       | 120             | C-7A  | 2.25 | 1.43             | 500            | 260           |       |             |           | Clear-Medical Spot                 |
|                                       |        |             | 25    | 14594           | 25S11/5C      | 120       | 120             | C-7A  | 2.25 | 1.56             | 500            | 260           |       |             |           | Reprographic-Frost. Printer        |
|                                       | SC Bay |             | 25    | 14575           | 25S11/4SC     | 10        | 120             | CC-6  | 2.37 | 1.25             | 1000           | 360           |       |             |           | Clear-Railway Signal Light         |
|                                       | T6.5   | DC Bay      | 25    | 14676           | 25T6 1/2DC    | 120       | 60              | C-8   | 5.56 | 1000             | 220            |               |       |             |           | Clear-Appliance. Scale Illuminator |
|                                       |        |             | 25    | 14678           | 25T61/2/DC    | 130       | 60              | C-8   | 5.56 | 1000             | 244            |               |       |             |           | Clear-Appliance. Scale Illuminator |
|                                       |        |             | 25    | 14685           | 25T61/2DC/F   | 130       | 60              | C-8   | 5.56 | 1000             | 240            |               |       |             |           | Frost-Appliance Scale Illuminator  |
|                                       |        |             | 25    | 14639           | 25T6 1/2      | 120       | 60              | C-8   | 5.5  | 1000             | 220            |               |       |             |           | Clear-Showcase                     |
|                                       | T7     | Inter       | 25    | 14641           | 25T61/2       | 130       | 60              | C-8   | 5.5  | 1000             | 244            |               |       |             |           | Clear-Showcase                     |
|                                       |        |             | 25    | 14668           | 25T61/2/F     | 130       | 60              | C-8   | 5.5  | 1000             | 240            |               |       |             |           | Frost-Showcase                     |
|                                       |        |             | 25    | 14741           | 25T7DC        | 120       | 60              | C-7A  | 2.25 | 1.31             | 200            | 195           |       |             |           | Clear-Appliance                    |
|                                       |        |             | 25    | 10692           | 25T7N-CD 6PK  | 120       | 240             | C-7A  | 2.25 | 1.56             | 200            | 195           |       |             |           | Clear-Appliance                    |
|                                       | T8     | Cand        | 25    | 14791           | 25T7N         | 120       | 60              | C-7A  | 2.25 | 1.56             | 200            | 195           |       |             |           | Clear-Appliance                    |
|                                       |        |             | 25    | 14809           | 25T8C         | 120       | 60              | C-7A  | 2.62 | 1.5              | 200            | 195           |       |             |           | Clear-Microwave                    |
|                                       |        |             | 25    | 14880           | 25T10 24PK    | 120       | 192             | C-8   | 5.62 | 1000             | 248            |               |       |             |           | Clear-Showcase                     |
|                                       |        |             | 25    | 14866           | 25T10         | 130       | 120             | C-8   | 5.62 | 1000             | 248            |               |       |             |           | Clear-Showcase                     |



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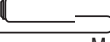
| Shape                                                                             | Base | Order Watts | Code     | Description            | Volts | Case Qty. | Filament Design | MOL   | LCL   | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes  | Additional Information                                         |
|-----------------------------------------------------------------------------------|------|-------------|----------|------------------------|-------|-----------|-----------------|-------|-------|------------------|----------------|---------------|------|-------------|------------|----------------------------------------------------------------|
| <b>INCANDESCENT LAMPS (CONTINUED)</b>                                             |      |             |          |                        |       |           |                 |       |       |                  |                |               |      |             |            |                                                                |
| <b>27 WATTS</b>                                                                   |      |             |          |                        |       |           |                 |       |       |                  |                |               |      |             |            |                                                                |
|    | R20  | Med         | 27 47681 | 27R20/SP/LLPQ1-6       | 120   | 30        | CC-6            | 3.93  |       | 2500             |                |               |      |             |            | Long Life Reflector - Indoor Spotlight                         |
| <b>30 WATTS</b>                                                                   |      |             |          |                        |       |           |                 |       |       |                  |                |               |      |             |            |                                                                |
|   | A15  | Med         | 30 14129 | 30A15                  | 130   | 120       | C-9             | 3.5   | 2.37  | 5000             | 215            |               |      |             |            | I.F. Changing Message Sign                                     |
|                                                                                   |      |             | 30 15291 | 30A15/CL               | 130   | 120       | C-9             | 3.5   | 2.37  | 5000             | 215            |               |      |             |            | Clear Changing Message Sign                                    |
|                                                                                   |      |             | 30 19358 | 30A15/8                | 130   | 120       | C-9             | 3.5   | 2.37  | 8000             | 180            |               |      |             |            | I.F. - Sign                                                    |
|   | R20  | Med         | 30 14891 | 30R20/1-6PK            | 120   | 30        | CC-6            | 3.93  |       | 2000             | 200            |               |      |             |            | Indoor Reflector                                               |
|                                                                                   |      |             | 30 46848 | 30R20/1                | 130   | 30        | C-9             | 3.93  |       | 2000             | 200            |               |      |             | 5B, 9K     | Indoor Reflector - Light I.F.                                  |
|                                                                                   |      |             | 30 46849 | 30R20/6                | 130   | 30        | C-9             | 3.93  |       | 6000             | 145            |               |      |             | 9D         | Reflector - Light I.F. - Flashing Message Sign                 |
|   | S11  | DC Bay      | 30 15012 | 30S11DC                | 75    | 120       | C-7A            | 2.37  | 1.25  | 500              | 350            |               |      |             | 9D         | Clear-Train Marker Control, BDTH                               |
|                                                                                   |      |             | 30 17948 | 30S11DC/RS             | 75    | 120       | C-9             | 2.37  | 1.25  | 2000             | 300            |               |      |             |            | Clear-Train                                                    |
|   | T8   | Disc        | 30 15029 | L30                    | 120   | 24        | C-8             | 17.75 |       | 1500             | 230            |               |      |             |            | Clear-Lumiline                                                 |
|                                                                                   |      |             | 30 15071 | L30/W                  | 120   | 24        | C-8             | 17.75 |       | 1500             | 210            |               |      |             |            | White-Lumiline                                                 |
| <b>30/70/100 WATTS</b>                                                            |      |             |          |                        |       |           |                 |       |       |                  |                |               |      |             |            |                                                                |
|    | A21  | 3C Med      | 30 41273 | 30/100 12PK            | 120   | 60        | C-2R            | 5.25  | 3.87  | 1200             | 305            |               |      |             | 2B, 9C, 9J | Soft White. 3-Way                                              |
|                                                                                   |      |             |          |                        | 120   |           | CC-8            |       |       |                  | 995            |               |      |             |            |                                                                |
|                                                                                   |      |             |          |                        | 120   |           |                 |       |       |                  | 1300           |               |      |             |            |                                                                |
|                                                                                   |      |             | 30 48711 | 30/100RVL PQ1/12       | 120   | 60        | C-2R            | 5.25  | 3.875 | 1200             | 220            |               |      |             | 2B, 9C, 9J | Reveal® 3-Way                                                  |
|                                                                                   |      |             |          |                        | 120   |           |                 |       |       |                  | 740            |               |      |             |            |                                                                |
|                                                                                   |      |             |          |                        | 120   |           |                 |       |       |                  | 960            |               |      |             |            |                                                                |
| <b>33 WATTS</b>                                                                   |      |             |          |                        |       |           |                 |       |       |                  |                |               |      |             |            |                                                                |
|  | A19  | Med         | 33 42626 | 33A19/5                | 130   | 120       | C-9             | 3.87  |       | 2500             | 270            |               |      |             |            | Clear-Changing Message Sign. Group Replacement                 |
| <b>34 WATTS</b>                                                                   |      |             |          |                        |       |           |                 |       |       |                  |                |               |      |             |            |                                                                |
|  | A19  | Med         | 34 12612 | 40A/34WM               | 120   | 120       | CC-6            | 4.43  | 3.12  | 2000             | 380            |               |      |             |            | Watt-Miser®-Diffuse Coating                                    |
|                                                                                   |      |             | 34 12620 | 40A/34WM               | 130   | 120       | CC-6            | 4.43  | 3.12  | 2000             | 365            |               |      |             |            | Watt-Miser®-Diffuse Coating                                    |
|                                                                                   |      |             | 30       |                        | 120   |           |                 |       |       | 5400             | 270            |               |      |             |            | (Ratings @120 volts)                                           |
|                                                                                   |      |             | 34 13009 | 40A/34WMP/99           | 130   | 120       | CC-6            | 4.43  | 3.12  | 2500             | 360            |               |      |             |            | Watt-Miser® Plus-Diffuse Coating.                              |
|                                                                                   |      |             | 30       |                        | 120   |           |                 |       |       | 6800             | 265            |               |      |             |            | Long Life, BB (Ratings @120 volts)                             |
| <b>40 WATTS</b>                                                                   |      |             |          |                        |       |           |                 |       |       |                  |                |               |      |             |            |                                                                |
|  | A15  | Med         | 40 15199 | 40A15                  | 120   | 120       | C-9             | 3.5   | 2.37  | 1500             | 415            |               |      |             |            | Clear-Appliance and Oven Service. Vibration Resistant          |
|                                                                                   |      |             |          | 15206 40A15 CARD 12PK  | 120   | 60        | C-9             | 3.5   | 2.37  | 1500             | 415            |               |      |             |            | Clear-Appliance and Oven Service. Vibration Resistant          |
|                                                                                   |      |             |          | 20451 40A15/CF CD2     | 120   | 60        | C-9             | 3.5   | 2.37  | 1500             | 415            |               |      |             |            | Clear-Ceiling Fan. Vibration Resistant                         |
|                                                                                   |      |             |          | 20452 40A15/W/CF CD2   | 120   | 60        | C-9             | 3.5   | 2.37  | 1500             | 355            |               |      |             |            | White-Ceiling Fan. Vibration Resistant                         |
|                                                                                   |      |             |          | 21188 40A15 CD/2       | 120   | 60        | C-9             | 3.5   | 2.37  | 1500             | 415            |               |      |             |            | Clear-Appliance and Oven Service. Vibration Resistant          |
|                                                                                   |      |             |          | 27451 40A15/F 120PK    | 120   | 120       | C-9             | 3.5   | 2.37  | 1500             | 355            |               |      |             |            | Frosted-Appliance and Oven Service. Vibration Resistant.       |
|                                                                                   |      |             |          | 27495 40A15/F/CD       | 120   | 60        | C-9             | 3.5   | 2.37  | 1500             | 355            |               |      |             |            | Frosted-Appliance and Oven Service. Vibration Resistant.       |
|                                                                                   |      |             |          | 45729 40A15/F CD2      | 120   | 60        | C-9             | 3.5   | 2.37  | 1500             | 355            |               |      |             |            | Frosted-Appliance and Oven Service. Vibration Resistant.       |
|                                                                                   |      |             |          | 46887 40A15CF/STG CD2  | 120   | 30        |                 | 3.5   | 2.37  | 1500             | 400            |               |      |             |            | Clear, Saf-T-Gard®, Ceiling Fan                                |
|                                                                                   |      |             |          | 48696 40A15/CF/RVL CD2 | 120   | 30        | C-9             | 3.5   | 2.375 | 1500             | 320            |               |      |             |            | Reveal® Clear-Ceiling Fan. Vibration Resistant                 |
|                                                                                   |      |             |          | 48697 40A15WCF/RVL CD2 | 120   | 30        | C-9             | 3.5   | 2.375 | 1500             | 260            |               |      |             |            | Reveal® White-Ceiling Fan. Vibration Resistant                 |
|                                                                                   |      |             |          | 48706 40A15/RVL CD2    | 120   | 30        | C-9             | 3.5   | 2.375 | 1500             | 320            |               |      |             |            | Reveal® Clear-Appliance and Oven Service. Vibration Resistant. |

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| Shape                                                                              | Base   | Order Watts Code            | Description               | Volts   | Case Qty. | Filament Design | MOL   | LCL   | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP       | Beam Spread  | Footnotes                        | Additional Information                                                   |                                  |
|------------------------------------------------------------------------------------|--------|-----------------------------|---------------------------|---------|-----------|-----------------|-------|-------|------------------|----------------|---------------|------------|--------------|----------------------------------|--------------------------------------------------------------------------|----------------------------------|
| INCANDESCENT LAMPS (CONTINUED)                                                     |        |                             |                           |         |           |                 |       |       |                  |                |               |            |              |                                  |                                                                          |                                  |
| 40 WATTS (CONTINUED)                                                               |        |                             |                           |         |           |                 |       |       |                  |                |               |            |              |                                  |                                                                          |                                  |
|    | Med    | 40 12311 40A/CL 24PK        |                           | 120     | 120       | CC-6            | 4.43  | 3.12  | 1500             | 480            |               |            |              |                                  | Crystal                                                                  |                                  |
|                                                                                    |        | 13255 40A 48PK              |                           | 120     | 144       | CC-6            | 4.43  | 3.12  | 1000             | 505            |               |            |              |                                  | Standard                                                                 |                                  |
|                                                                                    |        | 13257 40A/W 48PK            |                           | 120     | 144       | CC-6            | 4.43  | 3.12  | 1000             | 490            |               |            |              |                                  | Soft White                                                               |                                  |
|                                                                                    |        | 48687 40A/RVL 48PK          |                           | 120     | 144       | CC-6            | 4.43  | 3.12  | 1000             | 360            |               |            |              |                                  | Reveal® Soft White                                                       |                                  |
|                                                                                    |        | 81869 40A/CL/RVL 24PK       |                           | 120     | 120       | CC-6            | 4.43  | 3.12  | 1000             | 370            |               |            |              |                                  | Reveal® Clear                                                            |                                  |
|                                                                                    |        | 40 34034 40A 36             |                           | 130 120 | 120       | CC-6            | 4.43  | 3.125 | 1000 2600        | 495 365        |               |            |              |                                  | Inside Frost (Ratings @ 120 volts.)                                      |                                  |
|    | Med    | 40 34125 40A/CL 36          |                           | 130 120 | 120       | CC-6            | 4.43  | 3.12  | 1500 4000        | 480 345        |               |            |              |                                  | Clear (Ratings @ 120 volts.)                                             |                                  |
|                                                                                    |        | 40 40323 40A/S-130V-24PK 36 |                           | 130 120 | 24        | C-9             | 4.43  | 3.12  | 3000 5500        | 330 245        |               |            |              |                                  | Survivor™ LongLife, I.F., Vibration Resistant, BB (Ratings @ 120 volts.) |                                  |
|                                                                                    |        | 40 15554 40A/TS             |                           | 130     | 120       | C-9             | 4.37  | 2.43  | 2000             | 380            |               |            | 9D           |                                  | Clear-Traffic Signal, BDTH                                               |                                  |
|                                                                                    |        | R14 Inter                   | 40 25777 40R14/N/CD       |         | 120       | 30              | CC-2V | 2.68  |                  | 1500           |               |            |              |                                  | Indoor Reflector                                                         |                                  |
|                                                                                    |        | Med                         | 40 25776 40R14/CD         |         | 120       | 30              | CC-2V | 2.18  |                  | 1500           |               |            |              |                                  | Indoor Reflector                                                         |                                  |
|                                                                                    |        | R16 Med                     | 40 25781 40R16/CD         |         | 120       | 30              | CC-6  | 3.37  |                  | 1500           |               |            |              |                                  | Indoor Reflector                                                         |                                  |
|    | Inter  | 40 15734 40S11N/1/F         |                           | 120     | 120       | C-9             | 2.31  | 1.62  | 500              | 440            |               |            | 2G, 5E       |                                  | Frost                                                                    |                                  |
|                                                                                    |        | 35156 40S11N/1/CD 12PK      |                           | 120     | 240       | C-9             | 2.31  | 1.62  | 500              | 440            |               |            | 2G, 5E       |                                  | Clear-12-Card Pack                                                       |                                  |
|                                                                                    |        | T6.5 Inter                  | 40 15740 40T6 1/2/2       |         | 120       | 60              | C-8   | 5.5   |                  | 750            | 420           |            |              |                                  |                                                                          | Clear-Refrigerator               |
|                                                                                    |        |                             | 15742 40T61/2/2F          |         | 120       | 60              | C-8   | 5.5   |                  | 750            | 420           |            |              |                                  |                                                                          | Frost-Appliance                  |
|                                                                                    |        | T8 Disc                     | 40 15804 L40              |         | 120       | 24              | C-8   | 11.75 |                  | 1500           | 325           |            |              |                                  |                                                                          | Clear-Lumiline                   |
|                                                                                    |        |                             | 15839 L40/W               |         | 120       | 12              | C-8   | 11.75 |                  | 1500           | 295           |            |              |                                  |                                                                          | White-Lumiline                   |
|  | Med    | 40 15754 40T8               |                           | 120     | 24        | C-23            | 11.75 |       | 1000             | 430            |               |            |              |                                  | Clear-Showcase                                                           |                                  |
|                                                                                    |        | T10 Med                     | 40 15852 40T10            |         | 120       | 120             | C-8   | 5.62  |                  | 1000           | 420           |            |              |                                  |                                                                          | Clear-Showcase                   |
|                                                                                    |        |                             | 15892 40T10/F             |         | 120       | 120             | C-8   | 5.62  |                  | 1000           | 415           |            |              |                                  |                                                                          | Frost-Showcase                   |
|                                                                                    |        |                             | 15854 40T10               |         | 130       | 120             | C-8   | 5.62  |                  | 1000           | 420           |            |              |                                  |                                                                          | Clear-Showcase                   |
|                                                                                    |        |                             |                           |         |           |                 |       |       |                  |                |               |            |              |                                  |                                                                          |                                  |
|                                                                                    |        | <b>45 WATTS</b>             |                           |         |           |                 |       |       |                  |                |               |            |              |                                  |                                                                          |                                  |
|  | Med    | 45 20330 45R/FL/MI/1 6PK    |                           | 120     | 30        | CC-6            | 5.37  |       | 2000             | 485            |               | 300        | ↗ 2A, 5E, 9K |                                  | Reflector Flood                                                          |                                  |
|                                                                                    |        | 26804 45R30/FL/LL           |                           | 120     | 30        | CC-6            | 5.37  |       | 2500             | 450            |               |            | ↗ 2A, 5E, 9K |                                  | Reflector Flood-Long Life                                                |                                  |
|                                                                                    |        | R20 Med                     | 45 47682 45R20/SP/LLPQ1-6 |         | 120       | 30              | CC-6  | 3.31  |                  | 2500           |               |            |              | ↗ 2A, 5E, 9K                     |                                                                          | Long Life Indoor Spotlight       |
| <b>50 WATTS</b>                                                                    |        |                             |                           |         |           |                 |       |       |                  |                |               |            |              |                                  |                                                                          |                                  |
|  | Med    | 50 16201 50A19/RS           |                           | 75      | 120       | C-9             | 3.87  | 2.5   | 1000             | 545            |               |            | 2A, 5A       |                                  | I.F.-Rough Service, Train                                                |                                  |
|                                                                                    |        | 14727 50A/RS/CVG 24PK       |                           | 120     | 24        | C-17A           | 3.87  | 2.56  | 1000             | 480            |               |            | 2A, 9L, 9M   |                                  | Inside Frost-covRguard® Rough Service, BB, Teflon® Coated                |                                  |
|                                                                                    |        | 33495 50A/RS 24PK           |                           | 120     | 24        | C-17A           | 3.87  | 2.56  | 1000             | 490            |               |            | 2A, 5E       |                                  | I.F.-Rough Service                                                       |                                  |
|                                                                                    |        | 15995 50A                   |                           | 250     | 120       | C-17A           | 3.87  | 2.56  | 1000             | 490            |               |            |              |                                  | Inside Frost                                                             |                                  |
|                                                                                    |        | 16147 50A/RS                |                           | 250     | 120       | C-22            | 3.87  | 2.56  | 1000             | 470            |               |            | 2A, 5E       |                                  | I.F.-Rough Service                                                       |                                  |
|                                                                                    |        | 16317 50A19                 |                           | 300     | 120       | C-17A           | 3.87  | 2.56  | 1000             | 460            |               |            |              |                                  | Inside Frost                                                             |                                  |
|  | Med    | 50 10686 50A21/RV 6PK       |                           | 12      | 48        | C-6             | 4.87  | 3.43  | 1000             | 875            |               |            | 5A           |                                  | Recreational Vehicle and Marine - Inside Frost                           |                                  |
|                                                                                    |        | 16366 50A21                 |                           | 12      | 120       | C-6             | 4.87  | 3.43  | 1000             | 875            |               |            | 5A           |                                  | Inside Frost                                                             |                                  |
|                                                                                    |        | 16385 50A21                 |                           | 30      | 120       | C-9             | 4.87  | 3.43  | 1000             | 805            |               |            | 5A           |                                  | I.F.-Train                                                               |                                  |
|                                                                                    |        | 16390 50A21                 |                           | 34      | 120       | C-9             | 4.87  | 3.43  | 1000             | 805            |               |            | 5A           |                                  | I.F.-Train                                                               |                                  |
|                                                                                    |        | ER30 Med                    | 50 44429 50ER30           |         | 120       | 24              | CC-6  | 6.25  |                  | 2000           | 525           |            | 690          | 2A, 2B, 5E                       |                                                                          | Elliptical Reflector, Light I.F. |
|                                                                                    |        |                             | 47878 50ER30/PK           |         | 120       | 24              | CC-6  | 6.25  |                  | 2000           | 480           |            |              | 2A, 2B, 5E                       |                                                                          | Elliptical Reflector-Pink        |
| 11823 50ER30                                                                       |        |                             | 130                       | 24      | CC-6      | 6.25            |       | 1500  | 525              |                | 690           | 2A, 2B, 5E |              | Elliptical Reflector, Light I.F. |                                                                          |                                  |
|  | 3C Mog | 50 16535 50/50P25/28        |                           | 120     | 60        | C-5 C-9         | 5.06  | 3.31  | 750              | 400            |               |            |              |                                  | Clear-2-filament Marine Running Light, BB                                |                                  |



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| Shape                                                                              | Base  | Order Watts | Code                      | Description               | Volts | Case Qty. | Filament Design | MOL   | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP  | Beam Spread | Footnotes              | Additional Information                                    |
|------------------------------------------------------------------------------------|-------|-------------|---------------------------|---------------------------|-------|-----------|-----------------|-------|------|------------------|----------------|---------------|-------|-------------|------------------------|-----------------------------------------------------------|
| INCANDESCENT LAMPS (CONTINUED)                                                     |       |             |                           |                           |       |           |                 |       |      |                  |                |               |       |             |                        |                                                           |
| 50 WATTS (CONTINUED)                                                               |       |             |                           |                           |       |           |                 |       |      |                  |                |               |       |             |                        |                                                           |
|    | PAR36 | Scrw        | Term                      | 50 11468 50PAR36WFL/4     | 12    | 12        | C-6             | 2.75  |      | 4000             | 300            |               | 720   |             |                        | Wide Flood, Filament Shield                               |
|                                                                                    |       |             |                           | 12892 50PAR36VNSP         | 12    | 12        | C-6             | 2.75  |      | 2000             | 330            |               | 19000 | 6           |                        | Very Narrow Spot, Filament Shield                         |
|                                                                                    |       |             |                           | 16540 50PAR36/NSP         | 12    | 12        | C-6             | 2.75  |      | 2000             | 330            |               | 11000 | 10          |                        | Narrow Spot, Filament Shield                              |
|                                                                                    |       |             |                           | 16541 50 PAR 36 WFL       | 12    | 12        | C-6             | 2.75  |      | 2000             | 330            |               | 900   |             |                        | Wide Flood, Filament Shield                               |
|                                                                                    |       |             |                           | 16542 50 PAR 36 VWFL      | 12    | 12        | C-6             | 2.75  |      | 2000             | 330            |               | 600   | 55          |                        | Very Wide Flood. Filament Shield                          |
|    | R20   | Med         |                           | 50 14888 50R20/PL/1 6PK   | 120   | 30        | CC-6            | 3.93  |      | 2000             |                |               |       |             | 2A, 5E, 9K             | Reflector Plant Light                                     |
|                                                                                    |       |             |                           | 14896 50R20/1 6PK         | 120   | 30        | CC-6            | 3.93  |      | 2000             | 410            |               | 510   |             | 2A, 5E, 9K             | Reflector-I.F.                                            |
|                                                                                    |       |             |                           | 20368 50R20/TWIN          | 120   | 30        | CC-6            | 3.93  |      | 2000             | 410            |               | 510   |             | 2A, 5E, 9K             | Reflector Twin Pk.                                        |
|                                                                                    |       |             |                           | 22752 50R20/BLB 6PK       | 120   | 6         | CC-6            | 3.93  |      | 1000             |                |               |       |             | 2A, 2F, 5B, 7A, 7C, 9K | Blacklight Reflector                                      |
|                                                                                    |       |             |                           | 46854 50R20/HP/1          | 120   |           | CC-6            | 3.93  |      | 2000             |                |               |       |             |                        | Reflector, Hot Pink                                       |
|                                                                                    |       |             |                           | 48691 50R20/RVL PQ1/6     | 120   | 30        | CC-6            | 3.93  |      | 2000             |                |               |       |             |                        | Reveal®                                                   |
|                                                                                    |       |             |                           | 46851 50R20/1             | 130   | 30        | CC-6            | 3.93  |      | 2000             | 410            |               | 510   |             |                        | Indoor Reflector - Light I.F.                             |
|                                                                                    |       |             |                           | 46852 50R20/6             | 130   | 30        | C-9             | 3.93  |      | 6000             | 400            |               |       |             |                        | Reflector - Light I.F. - Flashing Message Sign            |
|                                                                                    |       |             |                           | 46853 50R20/PK/1          | 130   | 30        | CC-6            | 3.93  |      | 2000             |                |               |       |             |                        | Indoor Reflector - Pink                                   |
|                                                                                    |       |             |                           | 48038 50R20/FUS           | 130   | 30        | CC-6            | 3.93  |      | 2000             |                |               |       |             |                        | Reflector, Fusia                                          |
|     | T12   | 3C          | Med                       | 50 16726 50/50T12         | 115   | 24        | C-5<br>C-9      | 5.31  | 3    | 750              | 400            |               |       |             |                        | Clear-2-filament Marine Running Light, BB                 |
| 50/100/150 WATTS                                                                   |       |             |                           |                           |       |           |                 |       |      |                  |                |               |       |             |                        |                                                           |
|  | A21   | 3C          | Med                       | 50 14057 50/150/SSW 12PK  | 120   | 60        | CC-8            | 5.25  | 3.87 | 1200             | 650            |               |       |             | 2B, 9C, 9J             | Super Soft White, 3-Way                                   |
|                                                                                    |       |             |                           | 100                       | 120   |           | CC-8            |       |      |                  | 1550           |               |       |             |                        |                                                           |
|                                                                                    |       |             |                           | 150                       | 120   |           |                 |       |      |                  | 2200           |               |       |             |                        |                                                           |
|                                                                                    |       |             |                           | 50 22886 50/150A/RL/SW6PK | 120   | 30        | CC-8            | 5.25  | 3.87 | 1000             | 495            |               |       |             | 2B, 9C, 9J             | Soft White-Reader Light™ 3-Way                            |
|                                                                                    |       |             |                           | 100                       | 120   |           | C-2R            |       |      |                  | 1425           |               |       |             |                        |                                                           |
|                                                                                    |       |             |                           | 150                       | 120   |           |                 |       |      |                  | 1920           |               |       |             |                        |                                                           |
|                                                                                    |       |             |                           | 50 41280 50/150 12PK      | 120   | 60        | CC-8            | 5.25  | 3.87 | 1200             | 615            |               |       |             | 2B, 9C, 9J             | Soft White, 3-Way                                         |
|                                                                                    |       |             |                           | 100                       | 120   |           | CC-8            |       |      |                  | 1540           |               |       |             |                        |                                                           |
|                                                                                    |       |             |                           | 150                       | 120   |           |                 |       |      |                  | 2155           |               |       |             |                        |                                                           |
|                                                                                    |       |             |                           | 50 41362 50/150 TWIN 6PK  | 120   | 30        | CC-8            | 5.25  | 3.87 | 1200             | 615            |               |       |             | 2B, 9C, 9J             |                                                           |
|                                                                                    |       |             | 100                       | 120                       |       | CC-8      |                 |       |      | 1540             |                |               |       |             |                        |                                                           |
|                                                                                    |       |             | 150                       | 120                       |       |           |                 |       |      | 2155             |                |               |       |             |                        |                                                           |
|                                                                                    |       |             | 50 48712 50/150RVL PQ1/12 | 120                       | 60    | CC-8      | 5.25            | 3.875 | 1200 | 450              |                |               |       | 2B, 9C, 9J  | Reveal® 3-Way          |                                                           |
|                                                                                    |       |             | 100                       | 120                       |       | CC-8      |                 |       |      | 1150             |                |               |       |             |                        |                                                           |
|                                                                                    |       |             | 150                       | 120                       |       |           |                 |       |      | 1600             |                |               |       |             |                        |                                                           |
| 50/200/250 WATTS                                                                   |       |             |                           |                           |       |           |                 |       |      |                  |                |               |       |             |                        |                                                           |
|  | A21   | 3C          | Med                       | 50 19445 50/250/1 12PK    | 120   | 60        | CC-8            | 5.25  | 3.87 | 1200             | 620            |               |       |             | 2B,9C, 9J              | Soft White, 3-Way                                         |
|                                                                                    |       |             | 200                       | 120                       |       | CC-25     |                 |       |      |                  | 3335           |               |       |             |                        |                                                           |
|                                                                                    |       |             | 250                       | 120                       |       |           |                 |       |      |                  | 3955           |               |       |             |                        |                                                           |
| 52 WATTS                                                                           |       |             |                           |                           |       |           |                 |       |      |                  |                |               |       |             |                        |                                                           |
|  | A19   | Med         |                           | 52 12615 60A/52WM         | 120   | 120       | CC-8            | 4.43  | 3.12 | 1330             | 730            |               |       |             |                        | Watt-Miser®-Diffuse Coating                               |
|                                                                                    |       |             |                           | 52 12623 60A/52WM         | 130   | 120       | CC-8            | 4.43  | 3.12 | 1000             | 710            |               |       |             |                        | Watt-Miser®-Diffuse Coating                               |
|                                                                                    |       |             |                           | 46                        | 120   |           |                 |       |      | 2600             | 530            |               |       |             |                        | (Ratings @ 120 volts.)                                    |
|                                                                                    |       |             |                           | 52 13012 60A/52WMP/99     | 130   | 120       | CC-8            | 4.43  | 3.12 | 2500             | 640            |               |       |             |                        | Watt-Miser® Plus, Diffuse Coating,                        |
|                                                                                    |       |             |                           | 46                        | 120   |           |                 |       |      | 6800             | 480            |               |       |             |                        | LongLife, BB (Ratings @ 120 volts.)                       |
|                                                                                    |       |             | 52 13555 60A/52WM/CL      | 130                       | 120   | CC-8      | 4.43            | 3.12  | 1000 | 720              |                |               |       |             | Watt-Miser®-Clear      |                                                           |
|                                                                                    |       |             | 46                        | 120                       |       |           |                 |       | 2600 | 540              |                |               |       |             | (Ratings @ 120 volts.) |                                                           |
| 54 WATTS                                                                           |       |             |                           |                           |       |           |                 |       |      |                  |                |               |       |             |                        |                                                           |
|  | A21   | Med         |                           | 54 17960 60A21/54WM/TS    | 120   |           | C-11V           | 4.37  | 2.43 | 8000             | 530            |               |       |             |                        | Watt-Miser®, Clear-Traffic Signal, Burn BDTH, BB, Krypton |
|                                                                                    |       |             |                           | 17961 60A21/54WM/TS       | 120   |           | C-11V           | 4.37  | 2.43 | 8000             | 530            |               |       |             |                        | Watt-Miser®, Clear-Traffic Signal, Burn BDTH, BB, Krypton |

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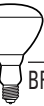
| Shape                                 | Base      | Order Watts | Code  | Description        | Volts | Case Qty. | Filament Design | MOL   | LCL   | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread            | Footnotes | Additional Information                                                  |
|---------------------------------------|-----------|-------------|-------|--------------------|-------|-----------|-----------------|-------|-------|------------------|----------------|---------------|------|------------------------|-----------|-------------------------------------------------------------------------|
| <b>INCANDESCENT LAMPS (CONTINUED)</b> |           |             |       |                    |       |           |                 |       |       |                  |                |               |      |                        |           |                                                                         |
| <b>55 WATTS</b>                       |           |             |       |                    |       |           |                 |       |       |                  |                |               |      |                        |           |                                                                         |
| A19                                   | Med       | 55          | 11904 | 55A/SW/MI 48PK     | 120   | 144       | CC-8            | 4.43  | 3.12  | 1000             | 800            |               |      |                        |           | Soft White, Miser®                                                      |
| <b>60 WATTS</b>                       |           |             |       |                    |       |           |                 |       |       |                  |                |               |      |                        |           |                                                                         |
| A15                                   | Med       | 60          | 14029 | 60A15/W/CF-CD2     | 120   | 60        | C-9             | 3.5   | 2.37  | 1500             | 650            |               |      |                        |           | White, Ceiling-Fan, Vibration-Resistant                                 |
|                                       |           |             | 17759 | 60A15/CF CD2       | 120   | 60        | C-9             | 3.5   | 2.37  | 1500             | 650            |               |      |                        |           | Clear-Ceiling Fan and Appliance, Vibration Resistant                    |
|                                       |           |             | 46888 | 60A15CF/STGPQ2/6   | 120   | 30        | C-9             | 3.5   | 2.37  | 1500             | 650            |               |      |                        |           | Ceiling Fan Saf-T-Gard®                                                 |
|                                       |           |             | 48698 | 60A15/CF/RVL CD2   | 120   | 30        | C-9             | 3.5   | 2.375 | 1500             | 480            |               |      |                        |           | Reveal® Clear-Ceiling Fan. Vibration Resistant                          |
| A19                                   | Med       | 60          | 14052 | 60A/SSW-24PK       | 120   | 120       | CC-8            | 4.43  | 3.12  | 1000             | 840            |               |      |                        |           | Super Soft - Soft White                                                 |
|                                       |           |             | 14414 | 60A/CVG 24PK       | 120   | 24        | CC-6            | 4.43  | 3.12  | 1000             | 850            |               |      |                        |           | Inside Frost-covRguard®, Teflon® Coated                                 |
|                                       |           |             | 16364 | 60A/BLB-CD         | 120   | 24        | C-9             | 4.43  |       | 1000             |                |               |      |                        |           | Black Light; Carded                                                     |
|                                       |           |             | 20326 | 60A/SPK 24PK       | 120   | 120       | CC-6            | 4.43  | 3.12  | 1000             | 675            |               |      |                        |           | Soft Pink                                                               |
|                                       |           |             | 22361 | 60A/COMM 24PK      | 120   | 24        | CC-6            | 4.43  | 3.12  | 1000             | 855            |               |      |                        |           | Inside Frost                                                            |
|                                       |           |             | 22384 | 60A/GD 24PK        | 120   | 24        | C-9             | 4.43  | 3.12  | 3000             | 635            |               |      |                        |           | Light I.F.-Garage Door, Vibration Resistant                             |
|                                       |           |             | 23097 | 60A/GD CD          | 120   | 24        | C-9             | 4.43  | 3.12  | 3000             | 635            |               |      |                        |           | Light I.F. Garage Door, Vibration Resistant, Carded                     |
|                                       |           |             | 25905 | 60A/BLB 6PK        | 120   | 30        | C-9             | 4.43  |       | 1000             |                |               |      | 2A, 2F, 5B, 7A, 7C, 9K |           | Black Light                                                             |
|                                       |           |             | 39322 | 60A/CL 24PK        | 120   | 120       | CC-6            | 4.43  | 3.12  | 1000             | 870            |               |      |                        |           | Clear                                                                   |
|                                       |           |             | 40324 | 60A/S-120V-24PK    | 120   | 24        | C-9             | 4.43  | 3.12  | 3000             | 600            |               |      |                        |           | Survivor™ LongLife I.F., Vibration Resistant, BB                        |
|                                       |           |             | 41026 | 60A 48PK           | 120   | 144       | CC-6            | 4.43  | 3.12  | 1000             | 865            |               |      |                        |           | Standard                                                                |
|                                       |           |             | 41028 | 60A/W 48PK         | 120   | 144       | CC-6            | 4.43  | 3.12  | 1000             | 840            |               |      |                        |           | Soft White                                                              |
|                                       |           |             | 41284 | 60A/Y 24PK         | 120   | 120       | CC-6            | 4.43  | 3.12  | 1000             | 550            |               |      |                        |           | Yellow Bug-Lite                                                         |
|                                       |           |             | 41285 | 60A/W/LL 24PK      | 120   | 120       | CC-6            | 4.43  | 3.12  | 1500             | 820            |               |      |                        |           | Soft White-LongLife                                                     |
|                                       |           |             | 41624 | 60A/PL 6PK         | 120   | 30        | CC-6            | 4.43  | 3.12  | 1000             | 630            |               |      | 5E                     |           | Plant Light                                                             |
|                                       |           |             | 46845 | 60A/W/STG PQ2/10   | 120   | 100       | CC-6            | 4.43  | 3.12  | 1000             | 812            |               |      |                        |           | Soft White Saf-T-Gard®                                                  |
|                                       |           |             | 48688 | 60A/RVL 48PK       | 120   | 144       | CC-8            | 4.43  | 3.12  | 1000             | 630            |               |      |                        |           | Reveal® Soft White                                                      |
|                                       |           |             | 81639 | 60A/CL/RVL 24PK    | 120   | 120       | CC-6            | 4.43  | 3.12  | 1000             | 650            |               |      |                        |           | Reveal® Clear                                                           |
|                                       |           | 60          | 16783 | 60A                | 130   | 120       | CC-6            | 4.43  | 3.12  | 1000             | 850            |               |      |                        |           | Inside Frost                                                            |
|                                       |           | 53          |       |                    | 120   |           |                 |       |       | 2600             | 640            |               |      |                        |           | (Ratings @ 120 volts.)                                                  |
|                                       |           | 60          | 40325 | 60A/S-130V-24PK    | 130   | 24        | C-9             | 4.43  | 3.12  | 3000             | 600            |               |      |                        |           | Survivor™ LongLife I.F., Vibration Resistant, BB (Ratings @ 120 volts.) |
|                                       |           | 53          |       |                    | 120   |           |                 |       |       | 8300             | 460            |               |      |                        |           |                                                                         |
| A21                                   | Med       | 60          | 17122 | 60A21              | 230   | 120       | C-17A           | 4.37  | 2.75  | 1000             | 585            |               |      |                        |           | Inside Frost                                                            |
|                                       |           |             | 16997 | 60A21/B            | 120   | 120       | C-9             | 4.87  |       | 1000             |                |               |      | 2B                     |           | Blue                                                                    |
|                                       |           |             | 17027 | 60A21/R            | 120   | 120       | C-9             | 4.87  |       | 1000             |                |               |      | 2B                     |           | Red                                                                     |
|                                       |           |             | 17968 | 69A21/60WM/TS      |       | 120       | C-11V           | 4.37  | 2.43  | 8000             | 610            |               |      |                        |           | Watt-Miser®-Clear, Traffic Signal, Burn BDTH, BB                        |
|                                       |           |             | 17969 | 69A21/60WM/TS      |       | 120       | C-11V           | 4.37  | 2.43  | 8000             | 610            |               |      |                        |           | Watt-Miser®-Clear, Traffic Signal, Burn BDTH, BB                        |
| R46                                   | Scrw Term | 60          | 17212 | 60PAR/2/R          | 38    | 12        | CC-2V           | 3.75  |       | 800              |                |               |      |                        |           | Red Lens-Train Warning                                                  |
| T8                                    | Disc      | 60          | 17226 | L60                | 120   | 24        | C-8             | 17.75 |       | 1500             | 480            |               |      |                        |           | Clear-Lumiline                                                          |
|                                       |           |             | 17266 | L60/W              | 120   | 12        | C-8             | 17.75 |       | 1500             | 450            |               |      |                        |           | White-Lumiline                                                          |
| T10                                   | Med       | 60          | 17292 | 60T10/64 24PK      | 120   | 192       | C-8             | 5.62  |       | 1000             | 740            |               |      |                        |           | Clear-Showcase, BDTH                                                    |
| <b>65 WATTS</b>                       |           |             |       |                    |       |           |                 |       |       |                  |                |               |      |                        |           |                                                                         |
| BR30                                  | Med       | 65          | 18011 | 65R/FL/MI/TWIN     | 120   | 6         | CC-6            | 5.37  |       | 2000             | 755            |               |      | 2A, 5E, 9K             |           | Reflector Flood Twin Pack                                               |
|                                       |           |             | 20331 | 65R/FL/MI/1 6PK    | 120   | 30        | CC-6            | 5.37  |       | 2000             | 755            |               |      | 2A, 5E, 9K             |           | Reflector Flood                                                         |
|                                       |           |             | 20332 | 65R/SP/MI/1 6PK    | 120   | 30        | CC-6            | 5.37  |       | 2000             | 755            |               |      | 2A, 5E, 9K             |           | Reflector                                                               |
|                                       |           |             | 20996 | 65R30/PL/1 6PK     | 120   | 30        | CC-6            | 5.37  |       | 2000             |                |               |      | 2A, 5E, 9K             |           | Reflector -Plant Light, BB                                              |
|                                       |           |             | 22714 | 65R30/FL/COMM 12PK | 120   | 12        | CC-6            | 5.37  |       | 2000             | 755            |               |      | 2A, 5E, 9K             |           | Reflector Flood 12 Pack                                                 |
|                                       |           |             | 26641 | 65R30/FL/B         | 120   | 30        | CC-6            | 5.37  |       | 2000             |                |               |      | 2A, 5E, 9K             |           | Reflector - Blue                                                        |



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| Shape                                                                             | Base             | Order Watts | Code  | Description       | Volts | Case Qty. | Filament Design | MOL  | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes                        | Additional Information                  |                                       |
|-----------------------------------------------------------------------------------|------------------|-------------|-------|-------------------|-------|-----------|-----------------|------|------|------------------|----------------|---------------|------|-------------|----------------------------------|-----------------------------------------|---------------------------------------|
| INCANDESCENT LAMPS (CONTINUED)                                                    |                  |             |       |                   |       |           |                 |      |      |                  |                |               |      |             |                                  |                                         |                                       |
| 65 WATTS (CONTINUED)                                                              |                  |             |       |                   |       |           |                 |      |      |                  |                |               |      |             |                                  |                                         |                                       |
|   | BR30 Med         | 65          | 26642 | 65R30/FL/G        | 120   | 30        | CC-6            | 5.37 |      | 2000             |                |               |      |             | 2A, 5E, 9K                       | Reflector - Green                       |                                       |
|                                                                                   |                  |             | 26645 | 65R30/FL/Y        | 120   | 30        | CC-6            | 5.37 |      | 2000             |                |               |      |             | 2A, 5E, 9K                       | Reflector - Yellow                      |                                       |
|                                                                                   |                  |             | 26803 | 65R30/FL/PK       | 120   | 30        | CC-6            | 5.37 |      | 2000             |                |               |      |             | 2A, 5E, 9K                       | Reflector - Pink                        |                                       |
|                                                                                   |                  |             | 26805 | 65R30/FL/LL       | 120   | 30        | CC-6            | 5.37 |      | 2500             | 725            |               |      |             | 2A, 5E, 9K                       | Long Life Reflector - Flood             |                                       |
|                                                                                   |                  |             | 26806 | 65R30/SP/LL       | 120   | 30        | CC-6            | 5.37 |      | 2500             | 725            |               |      |             | 2A, 5E, 9K                       | Long Life Reflector                     |                                       |
|                                                                                   |                  |             | 41837 | 65R30/SP/HP       | 120   | 30        | CC-6            | 5.37 |      | 2000             |                |               |      |             |                                  |                                         | Indoor Reflector, Hot Pink            |
|                                                                                   |                  |             | 46858 | 65R30/FL/CVG      | 120   | 30        | CC-6            | 5.37 |      | 2000             |                |               |      |             |                                  |                                         | Reflector - covRguard® Teflon® Coated |
|                                                                                   |                  |             | 47723 | 65R30FL/STGPQ1/6  | 120   | 30        | CC-6            | 5.37 |      | 2000             |                |               |      |             |                                  |                                         | Indoor Floodlight - Saf-T-Gard®       |
|                                                                                   |                  |             | 48692 | 65R/FL/RVL PQ1/6  | 120   | 30        | CC-6            | 5.37 |      | 2000             |                |               |      |             |                                  |                                         | Reveal®                               |
|                                                                                   |                  |             | 46855 | 65R30/FL          | 130   | 30        | CC-6            | 5.37 |      | 2000             | 725            |               |      |             |                                  |                                         | Watt-Miser® - Reflector               |
|   | BR40 Med         |             | 46856 | 65R30/SP          | 130   | 30        | CC-6            | 5.37 |      | 2000             | 725            |               |      |             |                                  | Watt-Miser® - Reflector                 |                                       |
|                                                                                   |                  |             | 46857 | 65R30/FL/PK       | 130   | 30        | CC-6            | 5.37 |      | 2000             |                |               |      |             |                                  | Watt-Miser® - Reflector - Pink          |                                       |
|                                                                                   |                  |             | 48039 | 65R30SP/FUS       | 130   | 30        | CC-6            | 5.37 |      | 2000             |                |               |      |             |                                  | Indoor Reflector, Fusia                 |                                       |
|                                                                                   |                  |             | 14016 | 65R40/FL/MI 6PK   | 120   | 30        | CC-6            | 6.56 |      | 2000             | 730            |               |      |             |                                  | 2A, 2B, 5E, 9K                          | Reflector Flood                       |
|   | PAR38 Med Sid Pr |             | 47683 | 65R40/FL/LLPQ1-6  | 120   | 30        | CC-6            | 6.56 |      | 2500             |                |               |      |             | 2A, 2B, 5E, 9K                   | Long Life Reflector - Indoor Floodlight |                                       |
|                                                                                   |                  |             | 46861 | 65R40/FL          | 130   | 30        | CC-6            | 6.56 |      | 2000             | 700            |               |      |             | 2A, 2B, 5E, 9K                   | Watt-Miser® - Reflector - I.F.          |                                       |
|                                                                                   |                  |             | 87904 | 65R40FL/RVL-TP6   | 120   | 30        | CC-6            | 6.56 |      | 2000             |                |               |      |             | 2A, 2B, 5E, 9K                   | Reveal® Reflector Flood                 |                                       |
|                                                                                   | PAR38 Med Sid Pr | 65          | 80314 | 75PAR/3FL/65WWM   | 120   | 12        | CC-6            | 4.3  |      | 2000             | 675            | 2675          | 1750 | 30          | 1A, 2A, 2B                       | Compact Flood                           |                                       |
|                                                                                   |                  |             | 80320 | 75PAR/3SP/65WWM   | 120   | 12        | CC-6            | 4.3  |      | 2000             | 675            | 2675          | 5900 | 14          | 1A, 2A, 2B                       | Compact Reflector                       |                                       |
| 67 WATTS                                                                          |                  |             |       |                   |       |           |                 |      |      |                  |                |               |      |             |                                  |                                         |                                       |
|  | A19 Med          | 67          | 12617 | 75A/67WWM         | 120   | 120       | CC-8            | 4.43 | 3.12 | 1000             | 1030           |               |      |             |                                  | Watt-Miser® - Diffuse Coating           |                                       |
|                                                                                   |                  | 67          | 12624 | 75A/67WWM         | 130   | 120       | CC-8            | 4.43 | 3.12 | 1000             | 1000           |               |      |             |                                  | Watt-Miser® - Diffuse Coating           |                                       |
|                                                                                   |                  | 60          |       |                   | 120   |           |                 |      |      | 2600             | 755            |               |      |             |                                  | (Ratings @ 120 volts.)                  |                                       |
|                                                                                   |                  | 67          | 13018 | 75A/67WMP/99      | 130   | 120       | CC-8            | 4.43 | 3.12 | 2500             | 910            |               |      |             |                                  | Watt-Miser® Plus-Diffuse Coating        |                                       |
|  | A21 Med          | 60          |       |                   | 120   |           |                 |      |      | 6800             | 685            |               |      |             |                                  | (Ratings @ 120 volts.)                  |                                       |
|                                                                                   |                  | 67          | 38551 | 67A21/TS          | 120   | 120       | C-9             | 4.37 | 2.43 | 8000             | 635            |               |      |             |                                  | Clear-Traffic Signal, BDTH              |                                       |
|                                                                                   |                  |             | 38553 | 67A21/TS          | 130   | 120       | C-9             | 4.37 | 2.43 | 8000             | 635            |               |      |             |                                  | Clear-Traffic Signal, BDTH              |                                       |
| 69 WATTS                                                                          |                  |             |       |                   |       |           |                 |      |      |                  |                |               |      |             |                                  |                                         |                                       |
|  | A21 Med          | 69          | 17323 | 69A21/TS          | 120   | 120       | C-9             | 4.37 | 2.43 | 8000             | 675            |               |      |             |                                  | Clear-Traffic Signal, BDTH              |                                       |
|                                                                                   |                  |             | 17325 | 69A21/TS          | 130   | 120       | C-9             | 4.37 | 2.43 | 8000             | 675            |               |      |             |                                  | Clear-Traffic Signal, BDTH              |                                       |
| 70 WATTS                                                                          |                  |             |       |                   |       |           |                 |      |      |                  |                |               |      |             |                                  |                                         |                                       |
|  | A19 Med          | 70          | 11905 | 70A/SW/MI 48PK    | 120   | 144       | CC-8            | 4.43 | 3.12 | 750              | 1125           |               |      |             |                                  | Soft White, Miser®                      |                                       |
| 70/170/240 WATTS                                                                  |                  |             |       |                   |       |           |                 |      |      |                  |                |               |      |             |                                  |                                         |                                       |
|  | A21 3C Med       | 70          | 15846 | 80/250A/RL/SW 6PK | 120   | 30        | C-2R            | 5.75 | 4.31 | 1000             | 800            |               |      |             | 2B, 2I, 9J                       | Soft White- Reader Light™ 3-Way         |                                       |
|                                                                                   |                  | 170         |       |                   | 120   |           | CC-8            |      |      | 1000             | 2800           |               |      |             |                                  |                                         |                                       |
|                                                                                   |                  | 240         |       |                   | 120   |           |                 |      |      | 1000             | 3600           |               |      |             |                                  |                                         |                                       |
| 75 WATTS                                                                          |                  |             |       |                   |       |           |                 |      |      |                  |                |               |      |             |                                  |                                         |                                       |
|  | A19 Med          | 75          | 10428 | 75A/CL 24PK       | 120   | 120       | CC-6            | 4.43 | 3.12 | 750              | 1200           |               |      |             |                                  | Clear                                   |                                       |
|                                                                                   |                  |             | 22364 | 75A/COMM 24PK     | 120   | 24        | CC-6            | 4.43 | 3.12 | 750              | 1180           |               |      |             |                                  | Inside Frost                            |                                       |
|                                                                                   |                  |             | 41030 | 75A 48PK          | 120   | 144       | CC-6            | 4.43 | 3.12 | 750              | 1190           |               |      |             |                                  | Standard                                |                                       |
|                                                                                   |                  |             | 41032 | 75A/W 48PK        | 120   | 144       | CC-6            | 4.43 | 3.12 | 750              | 1170           |               |      |             |                                  | Soft White                              |                                       |
|                                                                                   |                  |             | 41287 | 75A/W/LL 24PK     | 120   | 120       | CC-6            | 4.43 | 3.12 | 1125             | 1125           |               |      |             |                                  | Soft White-LongLife                     |                                       |
|                                                                                   |                  |             | 48689 | 75A/RVL 48PK      | 120   | 144       | CC-8            | 4.43 | 3.12 | 750              | 830            |               |      |             |                                  | Reveal® Soft White                      |                                       |
|                                                                                   |                  |             | 81870 | 75A/CL/RVL 24PK   | 120   | 120       | CC-6            | 4.43 | 3.12 | 750              | 885            |               |      |             |                                  | Reveal® Clear                           |                                       |
|                                                                                   |                  | 75          | 17347 | 75A               | 130   | 120       | CC-6            | 4.43 | 3.12 | 750              | 1170           |               |      |             |                                  | Inside Frost                            |                                       |
|                                                                                   |                  | 67          |       |                   | 120   |           |                 |      |      | 1950             | 885            |               |      |             |                                  | (Ratings @ 120 volts.)                  |                                       |
|                                                                                   |                  | 75          | 40328 | 75A/S-130V-24PK   | 130   | 24        | C-9             | 4.43 | 3.12 | 3000             | 815            |               |      |             |                                  | Survivor™ LongLife I.F. Vibration       |                                       |
|                                                                                   |                  | 67          |       |                   | 120   |           |                 |      |      | 8300             | 615            |               |      |             | Resistant (Ratings @ 120 volts.) |                                         |                                       |

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## Incandescent Lamps

| Shape                                                                              | Base  | Order Watts Code | Description               | Volts      | Case Qty. | Filament Design | MOL   | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes              | Additional Information                                             |
|------------------------------------------------------------------------------------|-------|------------------|---------------------------|------------|-----------|-----------------|-------|------|------------------|----------------|---------------|------|-------------|------------------------|--------------------------------------------------------------------|
| INCANDESCENT LAMPS (CONTINUED)                                                     |       |                  |                           |            |           |                 |       |      |                  |                |               |      |             |                        |                                                                    |
| 75 WATTS (CONTINUED)                                                               |       |                  |                           |            |           |                 |       |      |                  |                |               |      |             |                        |                                                                    |
|    | A21   | Med              | 75 17482 75A21            | 12         | 120       | C-6             | 5.25  | 3.81 | 1000             | 1500           |               |      |             | 5A                     | Inside Frost                                                       |
|                                                                                    |       |                  | 18274 75A/RS 12PK         | 120        | 60        | C-17            | 5.25  | 3.81 | 1000             | 750            |               |      |             | 2A, 5E                 | I.F. Rough Service                                                 |
|                                                                                    |       |                  | 46895 75A/RS/STG PQ1/6    | 120        | 30        | C-17            | 5.25  | 3.81 | 1000             | 740            |               |      |             |                        | Rough Service, Saf-T-Gard®                                         |
|                                                                                    |       |                  | 47263 75A/RS/CVG-6PK      | 120        | 30        | C-17            | 5.25  | 3.81 | 1000             | 740            |               |      |             |                        | Inside Frost - covRguard® Rough Service, Teflon® Coated            |
|    | ER30  | Med              | 75 17527 75A/RS 60PK 67   | 130<br>120 | 60        | C-17            | 5.25  | 3.81 | 1000<br>2600     | 740<br>560     |               |      |             | 2A, 5E<br>2A, 5E       | I.F. Rough Service (Ratings @ 120 volts)                           |
|                                                                                    |       |                  | 75 37044 75ER30           | 120        | 24        | CC-6            | 6.25  |      | 2000             | 850            |               | 1200 |             | 2A, 2B, 5E             | ER-Elliptical Reflector, Light I.F.                                |
|    | PAR38 | Med Sid Pr       | 75 42850 75ER30           | 130        | 24        | CC-6            | 6.25  |      | 2000             | 850            |               | 1200 |             | 2A, 2B, 5E             | ER-Elliptical Reflector, Light I.F.                                |
|                                                                                    |       |                  | 75 80319 75PAR/3SP/MINE   | 120        | 12        | CC-6            | 4.3   |      | 2000             | 765            | 2725          |      |             | 1A, 2A, 2B, 9N         | Mine Reflector                                                     |
|    | PAR46 | 3 Prong          | 75 80316 75PAR/3FL/MINE   | 120        | 12        | CC-6            | 4.3   |      | 2000             | 765            | 2725          | 1750 | 33          | 1A, 2A, 2B, 9N         | Mine Flood                                                         |
|                                                                                    |       |                  | 75 36473 75PAR46/TS       | 120        | 12        | CC-6            | 3.87  |      | 6000             | 700            |               |      |             |                        | Traffic Signal                                                     |
|    | R20   | Med              | 75 11320 75R20 6PK        | 120        | 60        | CC-6            | 3.93  |      | 2000             | 650            |               |      |             | 2A, 5E, 9K             | Reflector , I.F.                                                   |
|    | R30   | Med              | 75 22748 75R30/BLB 6PK    | 120        | 6         | C-9             | 5.37  |      | 1000             |                |               |      |             | 2A, 2F, 5B, 7A, 7C, 9K | Reflector Black Light                                              |
|    | T10   | Med              | 75 17749 75T10/1          | 120        | 24        | C-23            | 11.87 |      | 1000             | 800            |               |      |             |                        | Frost-Showcase                                                     |
|                                                                                    |       |                  | 17754 75T10/45            | 120        | 24        | C-23            | 11.87 |      | 1000             | 800            |               |      |             |                        | Clear-Showcase                                                     |
| 85 WATTS                                                                           |       |                  |                           |            |           |                 |       |      |                  |                |               |      |             |                        |                                                                    |
|   | PAR38 | Med Skirt        | 85 20945 85PAR/FL/BG 6PK  | 120        | 6         | CC-6            | 5.31  |      | 2000             |                |               |      |             | 1A, 2A, 2B             | Yellow-Bug-Lite, BB                                                |
|                                                                                    |       |                  | 13465 100PAR/B/85WM 6PK   | 120        | 6         | CC-6            | 5.31  |      | 2000             |                |               |      |             | ⚡ 1A, 2A, 2B           | Powder Coated - Blue, BB                                           |
|                                                                                    |       |                  | 13472 100PAR/R/85WM 6PK   | 120        | 6         | CC-6            | 5.31  |      | 2000             |                |               |      |             | ⚡ 1A, 2A, 2B           | Powder Coated - Red, BB                                            |
|                                                                                    |       |                  | 13473 100PAR/Y/85WM 6PK   | 120        | 6         | CC-6            | 5.31  |      | 2000             |                |               |      |             | ⚡ 1A, 2A, 2B           | Powder Coated - Yellow, BB                                         |
|                                                                                    |       |                  | 13474 100PAR/G/85WM 6PK   | 120        | 6         | CC-6            | 5.31  |      | 2000             |                |               |      |             | ⚡ 1A, 2A, 2B           | Powder Coated - Green, BB                                          |
| 88 WATTS                                                                           |       |                  |                           |            |           |                 |       |      |                  |                |               |      |             |                        |                                                                    |
|  | PAR36 | Scrw Term        | 88 39817 88PAR36/FL       | 75         | 12        | CC-6            | 2.75  |      | 1500             | 810            |               |      |             |                        | Projector-Train Warning                                            |
| 90 WATTS                                                                           |       |                  |                           |            |           |                 |       |      |                  |                |               |      |             |                        |                                                                    |
|  | A19   | Med              | 90 12618 100A/90WM        | 120        | 120       | CC-8            | 4.43  | 3.12 | 1000             | 1465           |               |      |             | ⚡                      | Watt-Miser®-Diffuse Coating                                        |
|                                                                                    |       |                  | 90 12625 100A/90WM 80     | 130<br>120 | 120       | CC-8            | 4.43  | 3.12 | 1000<br>2600     | 1440<br>1095   |               |      |             | ⚡                      | Watt-Miser®-Diffuse Coating (Ratings @ 120 volts.)                 |
|                                                                                    |       |                  | 90 13023 100A/90WMP/99 80 | 130<br>120 | 120       | CC-8            | 4.43  | 3.12 | 2500<br>6800     | 1260<br>960    |               |      |             | ⚡                      | Watt-Miser® Plus-Diffuse Coating. LongLife, (Ratings @ 120 volts.) |
|  | A21   | Med              | 90 17972 100A21/90WM/TS   | 125        | 120       | C-11V           | 4.37  | 2.43 | 8000             | 1040           |               |      |             | ⚡                      | Watt-Miser®-Clear. Traffic Signal. Burn BDTH, Krypton              |
|  | BR40  | Med              | 90 46870 90R40/FL         | 130        | 30        | CC-6            | 6.563 |      | 2000             | 1050           |               |      |             | ⚡                      | Watt-Miser® - Reflector - I.F.                                     |
|                                                                                    |       |                  | 14017 90R40/FL/MI 6PK     | 120        | 30        | CC-6            | 6.56  |      | 2000             | 1100           |               |      |             | ⚡ 2A, 2B, 5E, 9K       | Reflector Flood                                                    |
| 95 WATTS                                                                           |       |                  |                           |            |           |                 |       |      |                  |                |               |      |             |                        |                                                                    |
|  | A19   | Med              | 95 11906 95A/SW/MI 48PK   | 120        | 144       | CC-8            | 4.43  | 3.12 | 750              | 1610           |               |      |             | ⚡                      | Soft White Miser®                                                  |
| 100 WATTS                                                                          |       |                  |                           |            |           |                 |       |      |                  |                |               |      |             |                        |                                                                    |
|  | A19   | Med              | 100 14056 100A/SSW-24PK   | 120        | 120       | CC-8            | 4.43  | 3.12 | 750              | 1690           |               |      |             |                        | Super Soft - Soft White                                            |
|                                                                                    |       |                  | 17995 100A/LHT/IF         | 120        | 120       | CC-8            | 4.43  | 3.12 | 750              | 1710           |               |      |             |                        | Inside Frost, Left-Hand Medium Base                                |
|                                                                                    |       |                  | 20328 100A/SPK 24PK       | 120        | 120       | CC-8            | 4.43  | 3.12 | 1000             | 1330           |               |      |             | 2B                     | Soft Pink                                                          |
|                                                                                    |       |                  | 22366 100A/COMM 24PK      | 120        | 24        | CC-8            | 4.43  | 3.12 | 750              | 1690           |               |      |             |                        | Inside Frost                                                       |
|                                                                                    |       |                  | 39321 100A/CL 24PK        | 120        | 120       | CC-8            | 4.43  | 3.12 | 750              | 1730           |               |      |             |                        | Clear                                                              |
|                                                                                    |       |                  | 40329 100A/S-120V-24PK    | 120        | 24        | C-9             | 4.43  | 3.12 | 3000             | 1190           |               |      |             | 2B                     | Survivor™-I.F., Long Life, Vibration Resistant BB                  |
|                                                                                    |       |                  | 41034 100A 48PK           | 120        | 144       | CC-8            | 4.43  | 3.12 | 750              | 1710           |               |      |             |                        | Standard                                                           |
|                                                                                    |       |                  | 41036 100A/W 48PK         | 120        | 144       | CC-8            | 4.43  | 3.12 | 750              | 1690           |               |      |             |                        | Soft White                                                         |
|                                                                                    |       |                  | 41289 100A/W/LL 24PK      | 120        | 120       | CC-8            | 4.43  | 3.12 | 1125             | 1600           |               |      |             |                        | Soft White-Long Life                                               |



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| Shape                                                                              | Base  | Order Watts | Code      | Description      | Volts | Case Qty. | Filament Design | MOL   | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread            | Footnotes      | Additional Information                        |
|------------------------------------------------------------------------------------|-------|-------------|-----------|------------------|-------|-----------|-----------------|-------|------|------------------|----------------|---------------|------|------------------------|----------------|-----------------------------------------------|
| INCANDESCENT LAMPS (CONTINUED)                                                     |       |             |           |                  |       |           |                 |       |      |                  |                |               |      |                        |                |                                               |
| 100 WATTS (CONTINUED)                                                              |       |             |           |                  |       |           |                 |       |      |                  |                |               |      |                        |                |                                               |
|    | A19   | Med         | 100 41291 | 100A/Y 24PK      | 120   | 120       | CC-8            | 4.43  | 3.12 | 1000             | 900            |               |      |                        | 2B             | Bug-Lite                                      |
|                                                                                    |       |             | 46846     | 100A/W/STGPQ2/10 | 120   | 100       | CC-8            | 4.43  | 3.12 | 750              | 1624           |               |      |                        |                | Soft White Saf-T-Gard®                        |
|                                                                                    |       |             | 48690     | 100A/RVL 48PK    | 120   | 144       | CC-8            | 4.43  | 3.12 | 750              | 1260           |               |      |                        |                | Reveal® Soft White                            |
|                                                                                    |       |             | 81871     | 100A/CL/RVL 24PK | 120   | 120       | CC-8            | 4.43  | 3.12 | 750              | 1300           |               |      |                        |                | Reveal® Clear                                 |
|                                                                                    |       |             | 100 17933 | 100A             | 130   | 120       | CC-8            | 4.43  | 3.12 | 750              | 1680           |               |      |                        |                | Inside Frost                                  |
|                                                                                    |       |             | 89        |                  | 120   |           |                 |       |      | 1950             | 1275           |               |      |                        |                | (Ratings @ 120 volts.)                        |
|                                                                                    |       |             | 100 40330 | 100A/S-130V-24PK | 130   | 24        | C-9             | 4.43  | 3.12 | 3000             | 1170           |               |      |                        | 2B             | Survivor™-I.F., Long Life, Vibration          |
|                                                                                    |       |             | 89        |                  | 120   |           |                 |       |      | 8300             | 880            |               |      |                        | 2B             | Resistant, BB (Ratings @ 120 volts.)          |
|    | A21   | Med         | 100 17525 | 100A21/SBIF 60PK | 120   | 60        | CC-6            | 5.25  | 3.87 | 1000             | 1400           |               |      |                        | 2B             | I.F. Silvered Bowl                            |
|                                                                                    |       |             | 18275     | 100A/RS 12PK-5   | 120   | 60        | C-17            | 5.25  | 3.81 | 1000             | 1160           |               |      |                        | 2A, 5E         | I.F. Rough Service                            |
|                                                                                    |       |             | 47261     | 100A/RS/STGPQ1/6 | 120   | 30        | C-17            | 5.25  | 3.81 | 1000             | 1230           |               |      |                        |                | Rough Service - Saf-T-Gard®                   |
|                                                                                    |       |             | 47262     | 100A/RS/CVG-6PK  | 120   | 30        | C-17            | 5.25  | 3.81 | 1000             | 1230           |               |      |                        |                | I.F.-covRguard® Rough Service, Teflon® Coated |
|                                                                                    |       |             | 18365     | 100A21/TS        | 130   | 120       | C-9             | 4.37  | 2.43 | 3000             | 1280           |               |      |                        |                | Clear-Traffic Signal. Rated Watts: 98. BDTH   |
|                                                                                    |       |             | 100 17522 | 100A/RS 60PK     | 130   | 60        | C-17            | 5.25  | 3.81 | 1000             | 1060           |               |      |                        | 2A, 5E         | I.F. Rough Service                            |
|                                                                                    |       |             | 89        |                  | 120   |           |                 |       |      | 2600             | 800            |               |      |                        |                | (Ratings @ 120 volts.)                        |
|                                                                                    |       |             | 100 18221 | 100A21           | 130   | 60        | CC-6            | 5.25  | 3.87 | 750              | 1690           |               |      |                        |                | Inside Frost                                  |
|                                                                                    |       |             | 89        |                  | 120   |           |                 |       |      | 1950             | 1285           |               |      |                        |                | (Ratings @ 120 volts.)                        |
|                                                                                    |       |             | 100 21315 | 100A21/99 60PK   | 130   | 60        | CC-6            | 5.25  | 3.87 | 2500             | 1420           |               |      |                        |                | Diffuse Coating-Extended Service              |
|                                                                                    |       |             | 89        |                  | 120   |           |                 |       |      | 6800             | 1080           |               |      | (Ratings @ 120 volts.) |                |                                               |
|                                                                                    |       |             | 100 17515 | 100A 60PK        | 230   | 60        | C-7A            | 5.25  | 3.81 | 750              | 1280           |               |      |                        |                | Inside Frost                                  |
|                                                                                    |       |             | 17516     | 100A 60PK        | 250   | 60        | C-7A            | 5.25  | 3.81 | 750              | 1200           |               |      |                        |                | Inside Frost                                  |
|                                                                                    |       |             | 17524     | 100A/RS 60PK     | 250   | 60        | C-17            | 5.25  | 3.81 | 1000             | 960            |               |      |                        | 2A, 5E         | I.F. Rough Service                            |
|                                                                                    |       |             | 17517     | 100A 60PK        | 277   | 60        | C-7A            | 5.25  | 3.81 | 750              | 1250           |               |      |                        |                | Inside Frost                                  |
|  | A23   | Med         | 100 18512 | 100A23           | 12    | 120       | C-6             | 5.93  | 4.43 | 1000             | 1750           |               |      |                        | 5A             | Inside Frost                                  |
|                                                                                    |       |             | 17904     | 100A             | 34    | 120       | C-9             | 5.93  | 4.43 | 1000             | 2160           |               |      |                        | 5A             | I.F.-Train                                    |
|                                                                                    |       |             | 18449     | 100A23/IF        | 120   | 120       | CC-6            | 5.93  | 4.43 | 750              | 1600           |               |      |                        |                | Inside Frost                                  |
|                                                                                    |       |             | 18542     | 100A23/20        | 120   | 120       | CC-6            | 5.93  | 4.43 | 1000             | 1530           |               |      |                        |                | Clear-Commercial Oven                         |
|                                                                                    |       |             | 100 33456 | 100A23/VS        | 130   | 24        | C-9             | 5.93  | 4.43 | 1000             | 1340           |               |      |                        |                | I.F.-Vibration Service                        |
|                                                                                    |       |             | 89        |                  | 120   |           |                 |       |      | 2600             | 1020           |               |      |                        |                | (Ratings @ 120 volts.)                        |
|   | G16.5 | DC Bay      | 100 18721 | 100G16.5/29DC    | 120   | 60        | CC-13           | 3     | 1.37 | 120              | 1660           |               |      |                        | 5E, 9D         | Clear Reflector. BDTH, BB                     |
|   | PAR38 | Med Sid Pr  | 100 80323 | 100PAR38/FL      | 12    | 12        | C-6             | 4.3   |      | 1000             | 1400           |               | 2200 | 60                     | 1A, 2A, 2B, 9N | PAR-Mine Flood                                |
|   | R30   | Med         | 100 39503 | 100R30/CL        | 12    | 24        | C-6             | 5.37  |      | 2000             | 1200           |               |      |                        | 2B, 5A, 5E     | Reflector-Clear, Swimming Pool, BB            |
| 100/200/300 WATTS                                                                  |       |             |           |                  |       |           |                 |       |      |                  |                |               |      |                        |                |                                               |
|   | PS25d | 3C Mog      | 100 41459 | 100/300 6PK      | 120   | 30        | CC-6            | 6.68  | 4.43 | 1200             | 1320           |               |      |                        | 2B, 9C, 9J     | Soft White - 3-Way                            |
|                                                                                    |       |             | 200       |                  | 120   |           | CC-6            |       |      | 1500             | 3300           |               |      |                        |                |                                               |
|                                                                                    |       |             | 100       |                  | 120   |           |                 |       |      |                  | 4620           |               |      |                        |                |                                               |
| 110 WATTS                                                                          |       |             |           |                  |       |           |                 |       |      |                  |                |               |      |                        |                |                                               |
|   | R30   | Med         | 110 18980 | 110R30/FL/RS     | 120   | 24        |                 |       |      |                  |                |               |      |                        | 2A, 5E, 9K     | Reflector Flood. I.F. Rough Service, BB       |
|                                                                                    |       |             | 46859     | 110R30/FL/RS/1   | 120   | 30        | C-17            | 5.375 |      | 2000             | 1080           |               |      |                        |                | Reflector Flood. I.F. Rough Service           |
| 116 WATTS                                                                          |       |             |           |                  |       |           |                 |       |      |                  |                |               |      |                        |                |                                               |
|   | A21   | Med         | 116 19008 | 116A21/TS        | 120   | 120       | C-9             | 4.37  | 2.43 | 8000             | 1280           |               |      |                        |                | Clear-Traffic Signal, BDTH                    |
|                                                                                    |       |             | 19009     | 116A21/TS        | 125   | 120       | C-9             | 4.37  | 2.43 | 8000             | 1280           |               |      |                        |                | Clear-Traffic Signal, BDTH                    |
|                                                                                    |       |             | 19010     | 116A21/TS        | 130   | 120       | C-9             | 4.37  | 2.43 | 8000             | 1280           |               |      |                        |                | Clear-Traffic Signal, BDTH                    |
| 120 WATTS                                                                          |       |             |           |                  |       |           |                 |       |      |                  |                |               |      |                        |                |                                               |
|   | BR40  | Med         | 120 16241 | 120R40/FL-RVL    | 120   | 30        | CC-6            | 6.56  |      | 2000             |                |               |      |                        |                | Indoor Floodlight: Reveal                     |
|                                                                                    |       |             | 46875     | 120R40/FL/B      | 120   | 30        | CC-6            | 6.563 |      | 2000             |                |               | 1450 |                        |                | Watt-Miser® - Reflector - Blue                |



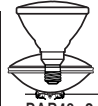
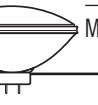
| Shape                                                                              | Base             | Order Watts | Code      | Description       | Volts   | Case Qty. | Filament Design | MOL   | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP  | Beam Spread | Footnotes      | Additional Information                                                   |
|------------------------------------------------------------------------------------|------------------|-------------|-----------|-------------------|---------|-----------|-----------------|-------|------|------------------|----------------|---------------|-------|-------------|----------------|--------------------------------------------------------------------------|
| INCANDESCENT LAMPS (CONTINUED)                                                     |                  |             |           |                   |         |           |                 |       |      |                  |                |               |       |             |                |                                                                          |
| 120 WATTS (CONTINUED)                                                              |                  |             |           |                   |         |           |                 |       |      |                  |                |               |       |             |                |                                                                          |
|    | BR40 Med         | 120         | 46876     | 120R40/FL/PK      | 120     | 30        | CC-6            | 6.563 |      | 2000             |                |               | 1450  |             |                | Watt-Miser® - Reflector - Pink                                           |
|                                                                                    |                  |             | 20333     | 120R/FL/MI/1 6PK  | 120     | 30        | CC-6            | 6.56  |      | 2000             | 1600           |               |       |             | 2A, 2B, 5E, 9K | Miser®-Reflector Flood                                                   |
|                                                                                    |                  |             | 20334     | 120R/SP/MI/1 6PK  | 120     | 30        | CC-6            | 6.56  |      | 2000             | 1600           |               |       |             | 2A, 2B, 5E, 9K | Reflector                                                                |
|                                                                                    |                  |             | 20824     | 120R/FLMI/TWIN    | 120     | 3         | CC-6            | 6.56  |      | 2000             | 1600           |               |       |             | 2A, 2B, 5E, 9K | Reflector Flood - Twin Pack                                              |
|                                                                                    |                  |             | 21000     | 120R40/PL-1 6PK   | 120     | 30        | CC-6            | 6.56  |      | 2000             |                |               |       |             | 2A, 2B, 5E, 9K | Reflector Plant Light, BB                                                |
|                                                                                    |                  |             | 22715     | 120R/FL/COMM 6PK  | 120     | 30        | CC-6            | 6.56  |      | 2000             | 1600           |               |       |             | 2A, 2B, 5E, 9K | Watt-Miser® Reflector Flood IF                                           |
|                                                                                    |                  |             | 47684     | 120R40/FLLPQ1-6   | 120     | 30        | CC-6            | 6.56  |      | 2500             | 1300           |               |       |             |                | Indoor Floodlight - Long Life                                            |
|                                                                                    |                  |             | 46871     | 120R40/FL         | 130     | 30        | CC-6            | 6.563 |      | 2000             | 1600           |               | 1450  |             |                | Watt-Miser® - Reflector - I.F.                                           |
|                                                                                    |                  |             | 46872     | 120R40/SP         | 130     | 30        | CC-6            | 6.563 |      | 2000             |                |               |       |             |                | Reflector                                                                |
|                                                                                    |                  |             | 46877     | 120R/40/FL/CVG    | 130     | 30        | CC-6            | 6.56  |      | 1700             | 1550           |               | 1200  |             |                | Reflector - covRguard® Teflon® Coated                                    |
|    | ER39 Med         | 120         | 41607     | 120ER39           | 120     | 24        | CC-6            | 7.37  |      | 2000             | 1425           |               | 1700  |             | 2A, 2B, 5E     | ER-Elliptical Reflector, Light I.F.                                      |
|                                                                                    |                  |             | 80313     | 150PAR/3FL/120WWM | 120     | 12        | CC-6            | 4.3   |      | 2000             | 1370           | 2725          | 3600  | 30          | 1A, 2A, 2B, 9N | Watt-Miser®-Flood                                                        |
|    | PAR38 Med Sid Pr | 120         | 80322     | 150PAR/3SP/120WWM | 120     | 12        | CC-6            | 4.3   |      | 2000             | 1370           | 2725          | 9200  | 18          | 1A, 2A, 2B, 9N | Watt-Miser® Reflector                                                    |
|                                                                                    |                  |             |           |                   |         |           |                 |       |      |                  |                |               |       |             |                |                                                                          |
| 135 WATTS                                                                          |                  |             |           |                   |         |           |                 |       |      |                  |                |               |       |             |                |                                                                          |
|    | A21 Med          | 135         | 17973     | 150A21/135WWM/TS  | 120     | C-11V     |                 | 4.68  | 3    | 7000             | 1750           |               |       |             |                | Watt-Miser®-Clear, Traffic Signal, Burn BDTH, BB, Krypton                |
|                                                                                    |                  |             | 17974     | 150A21/135WWM/TS  | 120     | C-11V     |                 | 4.68  | 3    | 7000             | 1750           |               |       |             |                | Watt-Miser®-Clear, Traffic Signal, Burn BDTH, BB, Krypton                |
|                                                                                    |                  |             | 12619     | 150A/135WWM       | 120     | 60        | CC-8            | 5.37  | 4.06 | 1000             | 2380           |               |       |             |                | Watt-Miser®-Diffuse Coating                                              |
|                                                                                    |                  |             | 135 12627 | 150A/135WWM       | 130 120 | 60        | CC-8            | 5.37  | 4.06 | 1000 2600        | 2340 1790      |               |       |             |                | Watt-Miser®-Diffuse Coating (Ratings @ 120 volts.)                       |
|                                                                                    |                  |             | 135 13025 | 150A/135WMP/99    | 130 120 | 60        | CC-8            | 5.37  | 4.06 | 2500 6800        | 2060 1580      |               |       |             |                | Watt-Miser®-Plus-Diffuse Coating, LongLife (Ratings @ 120 volts.)        |
| 150 WATTS                                                                          |                  |             |           |                   |         |           |                 |       |      |                  |                |               |       |             |                |                                                                          |
|  | A21 Med          | 150         | 10429     | 150A/W 12PK       | 120     | 12        | CC-8            | 5.37  | 4.06 | 750              | 2780           |               |       |             |                | Soft White                                                               |
|                                                                                    |                  |             | 16703     | 150A/RVL          | 120     | 30        | CC-8            | 5.37  | 4.06 | 750              | 1950           |               |       |             |                | Reveal®                                                                  |
|                                                                                    |                  |             | 22881     | 150A/RL/SW 6PK    | 120     | 30        | CC-8            | 5.75  | 4.31 | 750              | 2650           |               |       |             |                | Soft White-Reader Light™                                                 |
|                                                                                    |                  |             | 22889     | 150A/GAR 12PK     | 120     | 12        | CC-8            | 5.37  | 4.16 | 1125             | 2600           |               |       |             |                | I.F. - Garage                                                            |
|                                                                                    |                  |             | 41294     | 150A 24PK         | 120     | 24        | CC-8            | 5.37  | 4.06 | 750              | 2850           |               |       |             |                | Standard                                                                 |
|                                                                                    |                  |             | 150 15818 | 150A/S            | 130 133 | 60        | C-9             | 4.93  | 3.37 | 2000 5500        | 1925 1470      |               |       | 2B          |                | Survivor™-I.F. Long Life. Vibration Resistant, BB (Ratings @ 120 volts.) |
|                                                                                    |                  |             | 150 17625 | 150A21/RS         | 130 133 | 60        | C-17            | 5.25  | 3.81 | 1000 2600        | 2065 1580      |               |       | 2A, 5E      |                | I.F.-Rough Service (Ratings @ 120 volts.)                                |
|  | P25 Med          | 150         | 25929     | 150A21/99/IF      | 130 133 | 60        | CC-8            | 5.37  | 4.06 | 2500 6800        | 2310 1765      |               |       |             |                | I.F.-Extended Service, BB (Ratings @ 120 volts.)                         |
|                                                                                    |                  |             | 150 33009 | 150A              | 130 133 | 60        | CC-8            | 5.37  | 4.06 | 750 1950         | 2800 2140      |               |       |             |                | Inside Frost (Ratings @ 120 volts.)                                      |
|                                                                                    |                  |             | 19334     | 150P25/2SB        | 120     | 60        | C-7A            | 4.75  |      | 200              | 2100           |               |       |             |                | Clear Reflector. Silvered Bowl. Hard glass button, BB                    |
|  | PAR38 Med Sid Pr | 150         | 19372     | 150P25/10         | 120     | 60        | C-7A            | 4.75  | 3    | 200              | 2100           |               |       |             |                | Light I.F.-Spot. Hard glass button, BB                                   |
|                                                                                    |                  |             | 80321     | 150PAR/3SP/MINE   | 120     | 12        | CC-6            | 4.3   |      | 2000             | 1740           |               | 12000 | 16          | 1A, 2A, 2B, 9N | Mine Reflector                                                           |
|                                                                                    |                  |             | 80315     | 150PAR/3FL/MINE   | 120     | 12        | CC-6            | 4.3   |      | 2000             | 1740           | 2775          | 3100  | 36          | 1A, 2A, 2B, 9N | Mine-Flood                                                               |
|                                                                                    |                  |             | 19489     | 150PAR/3SP/MINE   | 130     | 12        | CC-6            | 4.3   |      | 2000             | 1740           |               | 12000 | 16          | 1A, 2A, 2B, 9N | Mine Reflector                                                           |
|                                                                                    |                  |             | 80317     | 150PAR/3FL/MINE   | 130     | 12        | CC-6            | 4.3   |      | 2000             | 1740           |               | 3100  | 36          | 1A, 2A, 2B, 9N | Mine-Flood                                                               |
|  | Med Skirt        | 150         | 19464     | 150PAR/FL/A       | 120     | 12        | CC-6            | 5.31  |      | 2000             |                |               |       |             | 1A, 2A, 2B     | Flood. Dichro Amber                                                      |
|                                                                                    |                  |             | 19465     | 150PAR/FL/B       | 120     | 12        | CC-6            | 5.31  |      | 2000             |                |               |       |             | 1A, 2A, 2B     | Flood. Dichro Blue                                                       |
|                                                                                    |                  |             | 19467     | 150PAR/FL/G       | 120     | 12        | CC-6            | 5.31  |      | 2000             |                |               |       |             | 1A, 2A, 2B     | Flood. Dichro Green                                                      |
|                                                                                    |                  |             | 19468     | 150PAR/FL/R       | 120     | 12        | CC-6            | 5.31  |      | 2000             |                |               |       |             | 1A, 2A, 2B     | Flood. Dichro Red                                                        |



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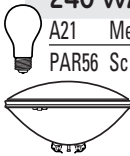
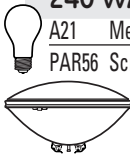
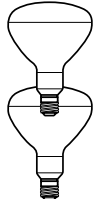
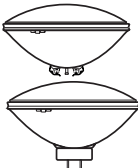
| Shape                                                                              | Base             | Order Watts Code | Description      | Volts | Case Qty. | Filament Design | MOL  | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP   | Beam Spread | Footnotes          | Additional Information                                    |
|------------------------------------------------------------------------------------|------------------|------------------|------------------|-------|-----------|-----------------|------|------|------------------|----------------|---------------|--------|-------------|--------------------|-----------------------------------------------------------|
| <b>INCANDESCENT LAMPS (CONTINUED)</b>                                              |                  |                  |                  |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
| <b>150 WATTS (CONTINUED)</b>                                                       |                  |                  |                  |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
|    | PAR38 Med Skirt  | 150 26370        | 150PAR/FL/CVG    | 120   | 12        | CC-6            | 5.31 |      | 2000             | 1700           |               |        |             | 1A, 2A, 2B, 9L, 9M | covRguard® Flood, BB, Teflon® Coated                      |
|                                                                                    |                  | 26371            | 150PAR/SP/CVG    | 120   | 12        | CC-6            | 5.31 |      | 2000             | 1700           |               |        |             |                    | covRguard® Spot, BB, Teflon® Coated                       |
|                                                                                    |                  | 48037            | 150PAR/FL/STGPQ6 | 120   | 6         | CC-6            | 5.31 |      | 2000             | 1700           |               |        |             |                    | Saf-T-Gard® Flood, BB, Teflon® Coated                     |
|    | PAR46 3 Prong    | 150 35327        | 150PAR46/TS      | 115   | 12        | CC-6            | 4    |      | 6000             | 1750           |               |        |             |                    | Traffic Signal - Burn Horiz.                              |
|                                                                                    |                  | 150 19512        | 150PAR46/1       | 32    | 12        | CC-8            | 3.75 |      | 800              | 1950           |               | 100000 |             |                    | Mine Locomotive Headlight                                 |
|                                                                                    |                  | 150 19517        | 150PAR46         | 125   | 12        | C-13            | 3.75 |      | 1000             | 1250           |               |        |             |                    | Mine Locomotive Headlight                                 |
|    | Med Sid Pr       | 150 41968        | 150PAR46/3MFL    | 125   | 12        | CC-13           | 4    |      | 2000             | 1500           | 2750          | 8000   |             | 1A, 2A, 5B, 5C, 9N | Medium Flood                                              |
|                                                                                    |                  | 150 14635        | 150PS25/CVG      | 120   | 60        | C-9             | 6.93 |      | 1000             | 2630           |               |        |             | 2A, 9L, 9M         | Inside Frost-covRguard®, BB, Teflon® Coated               |
|                                                                                    |                  | 150 14716        | 150/RS/CVG       | 120   | 60        | C-17            | 6.93 | 5.18 | 1000             | 2120           |               |        |             | 2A, 9L, 9M         | Inside Frost-covRguard® Rough Service, BB, Teflon® Coated |
|    | PS25 Med         | 150 19597        | 150/SBIF         | 120   | 60        | C-9             | 6.93 | 5.18 | 1000             | 2370           |               |        |             |                    | I.F.-Silver Bowl                                          |
|                                                                                    |                  | 150 19530        | 150/IF           | 130   | 60        | C-9             | 6.93 | 5.18 | 750              | 2520           |               |        |             |                    | Inside Frost                                              |
|                                                                                    |                  | 133              |                  | 120   |           |                 |      |      | 1950             | 1930           |               |        |             |                    | (Ratings @ 120 volts.) Vibration Resistant                |
|   | PS30 Med         | 150 19618        | 150/RS           | 130   | 60        | C-17            | 6.93 | 5.18 | 1000             | 2160           |               |        |             | 2A, 5E             | I.F.-Rough Service                                        |
|                                                                                    |                  | 133              |                  | 120   |           |                 |      |      | 2600             | 1650           |               |        |             |                    | (Ratings @ 120 volts.)                                    |
|                                                                                    |                  | 150 19658        | 150/99/IF        | 130   | 60        | C-9             | 6.93 | 5.18 | 2500             | 2200           |               |        |             |                    | I.F.-Extended Service                                     |
|  | PS30 Med         | 133              |                  | 120   |           |                 |      |      | 6800             | 1680           |               |        |             |                    | (Ratings @ 120 volts.) Vibration Resistant                |
|                                                                                    |                  | 150 19668        | 150/99CL         | 130   | 60        | C-9             | 6.93 | 5.18 | 2500             | 2200           |               |        |             |                    | Clear-Extended Service                                    |
|                                                                                    |                  | 133              |                  | 120   |           |                 |      |      | 6800             | 1680           |               |        |             |                    | (Ratings @ 120 volts.) Vibration Resistant                |
|  | PS30 Med         | 150 33465        | 150/VS           | 130   | 24        | C-9             | 6.93 | 5.18 | 1000             | 2270           |               |        |             |                    | I.F.-Vibration Service                                    |
|                                                                                    |                  | 133              |                  | 120   |           |                 |      |      | 2600             | 1735           |               |        |             |                    | (Ratings @ 120 volts.)                                    |
|                                                                                    |                  | 150 19756        | 150PS30          | 230   | 60        | C-9             | 8.06 | 6    | 750              | 1950           |               |        |             |                    | Clear-Reflector. Silvered Neck                            |
|  | ER30 Med         | 120 43231        | 120ER40          | 130   | 24        | CC-6            | 7.37 |      | 2000             | 1425           |               | 1700   |             | 2A, 2B, 5E         | ER-Elliptical Reflector, Light I.F.                       |
|                                                                                    |                  | 175 13643        | 175PAR38/HEAT    | 120   | 12        | CC-6            | 5.31 | 4.31 | 5000             | 3100           |               |        |             | 1A, 2A, 2B, 3B     | Infrared-Clear                                            |
|                                                                                    |                  | 200 11585        | 200A/W-1 12PK    | 120   | 12        | CC-8            | 5.37 | 4.06 | 750              | 3910           |               |        |             |                    | Soft White                                                |
|  | A21 Med          | 120 16069        | 200A/CL-1 12PK   | 120   | 12        | CC-8            | 5.37 | 4.06 | 750              | 3980           |               |        |             |                    | Crystal                                                   |
|                                                                                    |                  | 120 25925        | 200A21/IF/12PK   | 120   | 12        | CC-8            | 5.37 | 4.06 | 750              | 3920           |               |        |             |                    | Inside Frost                                              |
|                                                                                    |                  | 200 25930        | 200A21/IF 130    | 130   | 60        | CC-8            | 5.37 | 4.06 | 750              | 3850           |               |        |             |                    | Inside Frost                                              |
|  | A21 Med          | 177              |                  | 120   |           |                 |      |      | 1950             | 2965           |               |        |             |                    | (Ratings @ 120 volts.)                                    |
|                                                                                    |                  | 200 25932        | 200A21/CL        | 130   | 60        | CC-8            | 5.37 | 4.06 | 750              | 3850           |               |        |             |                    | Clear                                                     |
|                                                                                    |                  | 177              |                  | 120   |           |                 |      |      | 1950             | 2965           |               |        |             |                    | (Ratings @ 120 volts.)                                    |
|  | A21 Med          | 200 25936        | 200A21/99/IF     | 130   | 60        | CC-8            | 5.37 | 4.06 | 2500             | 3250           |               |        |             |                    | I.F.-Extended Service                                     |
|                                                                                    |                  | 177              |                  | 120   |           |                 |      |      | 6800             | 2500           |               |        |             |                    | (Ratings @ 120 volts.)                                    |
|                                                                                    |                  | 200 25937        | 200A21/99/CL 130 | 130   | 60        | CC-8            | 5.37 | 4.06 | 2500             | 3250           |               |        |             |                    | Clear-Extended Service                                    |
|  | PAR46 Med Sid Pr | 200 20115        | 200PAR46/3NSP    | 120   | 12        | CC-13           | 4    |      | 2000             | 2270           | 2750          | 31000  |             | 1A, 2A, 5B, 5C, 9N | Narrow Reflector                                          |
|                                                                                    |                  | 200 20138        | 200PAR46/3MFL    | 120   | 12        | CC-13           | 4    |      | 2000             | 2270           | 2750          | 11500  |             | 1A, 2A, 5B, 5C, 9N | Medium Flood                                              |
|                                                                                    |                  | 200 20117        | 200PAR46/3NSP    | 130   | 12        | CC-13           | 4    |      | 2000             | 2270           | 2750          | 31000  |             | 1A, 2A, 5B, 5C, 9N | Narrow Reflector                                          |
|  | PAR46 Med Sid Pr | 200 20140        | 200PAR46/3MFL    | 130   | 12        | CC-13           | 4    |      | 2000             | 2270           | 2750          | 11500  |             | 1A, 2A, 5B, 5C, 9N | Medium Flood                                              |
|                                                                                    |                  | 200 20122        | 200PAR           | 30    | 12        | CC-8            | 4.5  |      | 350              |                |               | 230000 |             |                    | Locomotive Headlight                                      |
|                                                                                    |                  | 200 49889        | 200PAR56/MFL     | 120   | 12        | CC-13           | 5    |      | 2000             | 2270           | 2750          | 15000  |             | 1A, 2A, 5B, 5C, 9N | Medium Flood                                              |

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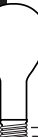
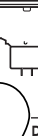
| Shape                                                                              | Base      | Order Watts     | Code      | Description    | Volts | Case Qty. | Filament Design | MOL  | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP   | Beam Spread | Footnotes          | Additional Information                                            |
|------------------------------------------------------------------------------------|-----------|-----------------|-----------|----------------|-------|-----------|-----------------|------|------|------------------|----------------|---------------|--------|-------------|--------------------|-------------------------------------------------------------------|
| <b>INCANDESCENT LAMPS (CONTINUED)</b>                                              |           |                 |           |                |       |           |                 |      |      |                  |                |               |        |             |                    |                                                                   |
| <b>200 WATTS (CONTINUED)</b>                                                       |           |                 |           |                |       |           |                 |      |      |                  |                |               |        |             |                    |                                                                   |
|    | PS30      | Med             | 200 14636 | 200PS30/CVG    | 120   | 60        | C-9             | 8.06 | 6    | 1000             | 3480           |               |        |             | 2A, 9L, 9M         | Inside Frost-covRguard®, BB, Teflon® Coated                       |
|                                                                                    |           |                 | 14637     | 200PS30/RS/CVG | 120   | 60        | C-9             | 8.06 | 6    | 1000             | 3330           |               |        |             | 2A, 9L, 9M         | Inside Frost-covRguard® Rough Service, BB, Teflon® Coated         |
|                                                                                    |           |                 | 20316     | 200/SBIF       | 120   | 60        | C-9             | 8.06 | 6    | 1000             | 3320           |               |        |             |                    | I.F.-Silvered Bowl                                                |
|                                                                                    | 200 20172 | 200             |           |                | 130   | 60        | C-9             | 8.06 | 6    | 750              | 3540           |               |        |             |                    | Clear                                                             |
|                                                                                    | 177       |                 |           |                | 120   |           |                 |      |      | 1950             | 2725           |               |        |             |                    | (Ratings @ 120 volts.)                                            |
|                                                                                    | 200 20252 | 200/IF          |           |                | 130   | 60        | C-9             | 8.06 | 6    | 750              | 3540           |               |        |             |                    | Inside Frost                                                      |
|                                                                                    | 177       |                 |           |                | 120   |           |                 |      |      | 1950             | 2725           |               |        |             |                    | (Ratings @ 120 volts.)                                            |
|                                                                                    | 200 20354 | 200/99IF        |           |                | 130   | 60        | C-9             | 8.06 | 6    | 2500             | 3000           |               |        |             |                    | I.F.-Extended Service, BB                                         |
|                                                                                    | 177       |                 |           |                | 120   |           |                 |      |      | 6800             | 2310           |               |        |             |                    | (Ratings @ 120 volts.)                                            |
|   | 200 20403 | 200PS30/24      |           |                | 130   | 60        | C-9             | 8.06 | 6    | 1000             | 3240           |               |        |             | 2A, 5E             | Clear-Rough Service                                               |
|                                                                                    | 177       |                 |           |                | 120   |           |                 |      |      | 2600             | 2495           |               |        |             | 2A, 5E             | (Ratings @ 120 volts.)                                            |
|                                                                                    | 200 33468 | 200PS30/23 24PK |           |                | 130   | 24        | C-9             | 8.06 | 6    | 1000             | 3240           |               |        |             | 2A, 5E             | I.F.-Rough Service                                                |
|                                                                                    | 177       |                 |           |                | 120   |           |                 |      |      | 2600             | 2495           |               |        |             |                    | (Ratings @ 120 volts.)                                            |
|                                                                                    | 200 20192 | 200             |           |                | 250   | 60        | C-9             | 8.06 | 6    | 1000             | 2980           |               |        |             |                    | Clear                                                             |
| <b>240 WATTS</b>                                                                   |           |                 |           |                |       |           |                 |      |      |                  |                |               |        |             |                    |                                                                   |
|   | A21       | Med             | 240 15843 | 240A/RL/SW 6PK | 120   | 30        | CC-8            | 5.75 | 4.31 | 750              | 4300           |               |        |             |                    | Soft White-Reader Light™                                          |
|                                                                                    | PAR56     | Scr w Term      | 240 20575 | 240PAR56/VNSP  | 12    | 12        | C-6             | 4.5  |      | 2000             |                | 2800          | 140000 |             | 1A, 2A, 5B, 5C, 9N | Very Narrow Reflector                                             |
|                                                                                    |           |                 | 20576     | 240PAR56/MFL   | 12    | 12        | C-6             | 4.5  |      | 2000             |                | 2800          | 46000  |             | 1A, 2A, 5B, 5C, 9N | Medium Flood                                                      |
|                                                                                    |           |                 | 20577     | 240PAR56/WFL   | 12    | 12        | C-6             | 4.5  |      | 2000             |                | 2800          | 13000  |             | 1A, 2A, 5B, 5C, 9N | Wide Flood                                                        |
| <b>250 WATTS</b>                                                                   |           |                 |           |                |       |           |                 |      |      |                  |                |               |        |             |                    |                                                                   |
|  | R40       | Med             | 250 37770 | 250R40/1 6PK   | 120   | 30        | C-9             | 6.56 |      | 5000             | 2200           |               |        |             | 2A, 2B, 3B, 5E, 6A | Reflector-Warm Up Infrared Heat Lamp - Clear Face                 |
|                                                                                    |           |                 | 37771     | 250R40/10 6PK  | 120   | 30        | C-9             | 6.56 |      | 5000             |                |               |        |             | 2A, 2B, 3B, 5E, 6A | Reflector-Chill Chaser Infrared Heat Lamp. Red, HRG               |
|                                                                                    |           |                 | 46881     | 250R40/1/CVG   | 120   | 30        | C-9             | 6.56 |      | 5000             | 2150           |               |        |             |                    | Clear-covRguard® Teflon® Coated. Food Warming, Reflector-Infrared |
|                                                                                    | Med Skirt | 250 20724       | 250R40/4  |                | 120   | 24        | C-9             | 7.43 |      | 5000             |                |               |        |             | 2A, 2B, 3B, 5E, 6A | Reflector Infrared Industrial-Light I.F., BB                      |
| <b>300 WATTS</b>                                                                   |           |                 |           |                |       |           |                 |      |      |                  |                |               |        |             |                    |                                                                   |
|  | PAR56     | Scr w Term      | 300 23427 | 300PAR56/WFL   | 12    | 12        | C-6             | 4.5  |      | 1000             | 6000           |               |        |             | 2B, 9F, 9N         | PAR-Wide Flood. Swimming                                          |
|                                                                                    | PAR56     | Mog End Pr      | 300 20803 | 300PAR56/NSP   | 120   | 12        | CC-13           | 5    |      | 2000             | 3840           | 2750          | 68000  |             | 1A, 2A, 5B, 5C, 9N | Narrow Reflector                                                  |
|                                                                                    |           |                 | 20836     | 300PAR56/MFL   | 120   | 12        | CC-13           | 5    |      | 2000             | 3840           | 2750          | 24000  |             | 1A, 2A, 5B, 5C, 9N | Medium Flood                                                      |
|                                                                                    |           |                 | 20849     | 300PAR56/WFL   | 120   | 12        | CC-13           | 5    |      | 2000             | 3840           | 2750          | 11000  |             | 1A, 2A, 5B, 5C, 9N | Wide Flood                                                        |
|                                                                                    |           |                 | 20838     | 300PAR56/MFL   | 130   | 12        | CC-13           | 5    |      | 2000             | 3840           | 2750          | 24000  |             | 1A, 2A, 5B, 5C, 9N | Medium Flood                                                      |
|                                                                                    |           |                 | 20851     | 300PAR56/WFL   | 130   | 12        | CC-13           | 5    |      | 2000             | 3840           | 2750          | 11000  |             | 1A, 2A, 5B, 5C, 9N | Wide Flood                                                        |
|                                                                                    |           |                 |           |                |       |           |                 |      |      |                  |                |               |        |             |                    |                                                                   |
|  | PS25      | Med             | 300 20861 | 300M           | 120   | 60        | CC-8            | 6.93 | 5.18 | 750              | 6200           |               |        |             |                    | Clear                                                             |
|                                                                                    |           |                 | 25919     | 300M/IF 6PK    | 120   | 30        | CC-8            | 6.93 | 5.18 | 750              | 6200           |               |        |             |                    | Inside Frost                                                      |
|                                                                                    | 300 20863 | 300M            |           |                | 130   | 60        | CC-8            | 6.93 | 5.18 | 750              | 6120           |               |        |             |                    | Clear                                                             |
|                                                                                    | 266       |                 |           |                | 120   |           |                 |      |      | 1950             | 4170           |               |        |             |                    | (Ratings @ 120 volts.)                                            |
|                                                                                    | 300 20917 | 300M/IF         |           |                | 130   | 60        | CC-8            | 6.93 | 5.18 | 750              | 6120           |               |        |             |                    | Inside Frost                                                      |
|                                                                                    | 266       |                 |           |                | 120   |           |                 |      |      | 1950             | 4170           |               |        |             |                    | (Ratings @ 120 volts.)                                            |



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| Shape                                                                              | Base       | Order Watts Code                  | Description | Volts | Case Qty. | Filament Design | MOL  | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP   | Beam Spread | Footnotes          | Additional Information                            |
|------------------------------------------------------------------------------------|------------|-----------------------------------|-------------|-------|-----------|-----------------|------|-----|------------------|----------------|---------------|--------|-------------|--------------------|---------------------------------------------------|
| INCANDESCENT LAMPS (CONTINUED)                                                     |            |                                   |             |       |           |                 |      |     |                  |                |               |        |             |                    |                                                   |
| 300 WATTS (CONTINUED)                                                              |            |                                   |             |       |           |                 |      |     |                  |                |               |        |             |                    |                                                   |
|    | Med        | 300 20887 300M/99                 |             | 130   | 60        | C-9             | 8.06 | 6   | 2500             | 5110           |               |        |             |                    | Clear-Extended Service (Ratings @ 120 volts.)     |
|                                                                                    |            | 266                               |             | 120   |           |                 |      |     | 6800             | 3935           |               |        |             |                    |                                                   |
|    | Mog        | 300 20894 300M/99IF               |             | 130   | 60        | C-9             | 8.06 | 6   | 2500             | 5110           |               |        |             |                    | I.F.-Extended Service (Ratings @ 120 volts.)      |
|                                                                                    |            | 266                               |             | 120   |           |                 |      |     | 6800             | 3935           |               |        |             |                    |                                                   |
|    | Med        | 300 21025 300                     |             | 130   | 24        | C-9             | 9.37 | 7   | 1000             | 5820           |               |        |             |                    | Clear                                             |
|                                                                                    |            | 21079 300/IF                      |             | 130   | 24        | C-9             | 9.37 | 7   | 1000             | 5820           |               |        |             |                    | Inside Frost                                      |
|                                                                                    |            | 21139 300/SBIF                    |             | 130   | 24        | C-9             | 9.37 | 7   | 1000             | 5410           |               |        |             |                    | I.F.-Silver Bowl. Burn base up                    |
|                                                                                    |            | 21167 300/99                      |             | 130   | 24        | C-9             | 9.37 | 7   | 2500             | 5190           |               |        |             |                    | Clear-Extended Service                            |
|                                                                                    |            | 21177 300/99IF                    |             | 130   | 24        | C-9             | 9.37 | 7   | 2500             | 5190           |               |        |             |                    | I.F.-Extended Service                             |
|    | Mog        | 300 21197 300R/SP                 |             | 120   | 24        | CC-2V           | 6.56 |     | 2000             | 3700           |               | 9000   |             | 2A, 2B, 5B, 9E     | Reflector -Light I.F. HORIZ                       |
|                                                                                    |            | 21213 300R/FL                     |             | 120   | 24        | CC-2V           | 6.56 |     | 2000             | 3700           |               | 2500   |             | 2A, 2B, 5B, 9E     | Reflector Flood-I.F. HORIZ                        |
|                                                                                    |            | 21229 300R/FL/1                   |             | 120   | 24        | CC-2V           | 6.75 |     | 2000             | 3700           |               | 1900   |             | 2A, 2B, 5B, 9E     | Reflector Flood-I.F. BB, HRG                      |
|                                                                                    |            | 300 21215 300R/FL                 |             | 130   | 24        | CC-2V           | 6.56 |     | 2000             | 3465           |               | 2500   |             | 2A, 2B, 5B, 9E     | Reflector Flood-I.F. HORIZ (Ratings @ 120 volts.) |
|                                                                                    |            | 266                               |             | 120   |           |                 |      |     | 5400             | 2670           |               |        |             |                    |                                                   |
|   | Mog        | 300 21254 300R/3FL                |             | 120   | 24        | CC-2V           | 7.25 |     | 2000             | 3750           |               |        |             | 2A, 2B, 5B, 9E     | Reflector Flood-I.F. BB                           |
|                                                                                    |            | 21256 300R/3FL                    |             | 130   | 24        | CC-2V           | 7.25 |     | 2000             | 3750           |               |        |             | 2A, 2B, 5B, 9E     | Reflector Flood-I.F. BB                           |
|                                                                                    |            | 21263 300R/3FL                    |             | 250   | 24        | C-7A            | 7.25 |     | 2000             | 3300           |               |        |             | 2A, 2B, 5B, 9E     | Reflector Flood-I.F. BB                           |
| T20                                                                                | Med BiPost | 300 21280 300T20/1                |             | 120   | 12        | C-13            | 6.5  | 4   | 1000             | 5500           |               |        |             | 8A, 9G             | Inside Frost, HRG                                 |
| 350 WATTS                                                                          |            |                                   |             |       |           |                 |      |     |                  |                |               |        |             |                    |                                                   |
| PAR56                                                                              | Scrw Term  | 350 19866 350PAR56/SP             |             | 75    | 12        | CC-8            | 4.5  |     | 500              | 6200           |               |        |             | 1A, 2A, 5B, 5C, 9N | Ditch Light-Locomotive                            |
| 375 WATTS                                                                          |            |                                   |             |       |           |                 |      |     |                  |                |               |        |             |                    |                                                   |
|  | Med Skirt  | 375 21331 375R40                  |             | 115   | 24        | C-9             | 7.37 |     | 5000             |                |               |        |             | 2A, 2B, 3B, 5E, 6A | Reflector Infrared Industrial-Light I.F., BB      |
|                                                                                    |            | 21334 375R40/1                    |             | 115   | 24        | C-9             | 7.5  |     | 5000             |                |               |        |             | 2A, 2B, 3B, 5E, 6A | Reflector Infrared Industrial-Clear Face, HRG, BB |
| 400 WATTS                                                                          |            |                                   |             |       |           |                 |      |     |                  |                |               |        |             |                    |                                                   |
| G30                                                                                | Med        | 400 21363 400G/FL                 |             | 120   | 60        | C-5             | 5.12 | 3   | 800              | 6800           |               |        |             | 2A, 2B, 2D, 5B     | Clear Flood, BDTH, BB                             |
| R40                                                                                | Med        | 400 17542 400R40/FL               |             | 120   | 24        | CC-2V           | 6.75 |     | 2000             | 5000           |               |        |             | 5B, 5C, 9B         | Reflector Flood. Swimming Pool, BB, HRG           |
| 500 WATTS                                                                          |            |                                   |             |       |           |                 |      |     |                  |                |               |        |             |                    |                                                   |
|  | MogEndPr   | 500 39411 500PAR64/MFL            |             | 230   | 12        | CC-13           | 6    |     | 2000             | 5500           | 2700          |        |             | 1A, 2A, 5B, 5C, 9N | Medium Flood                                      |
|                                                                                    |            | 39414 500PAR64/WFL                |             | 230   | 12        | CC-13           | 6    |     | 2000             | 5500           | 2700          |        |             | 1A, 2A, 5B, 5C, 9N | Wide Flood                                        |
|                                                                                    |            | ExMogEndPr 500 39406 500PAR64/NSP |             | 120   | 12        | CC-13           | 6    |     | 2000             | 6500           | 2800          | 110000 |             | 1A, 2A, 5B, 5C, 9N | Narrow Reflector                                  |
|                                                                                    |            | 39409 500PAR64/MFL                |             | 120   | 12        | CC-13           | 6    |     | 2000             | 6500           | 2800          | 37000  |             | 1A, 2A, 5B, 5C, 9N | Medium Flood                                      |
|  | Mog        | 500 39412 500PAR64/WFL            |             | 120   | 12        | CC-13           | 6    |     | 2000             | 6500           | 2800          | 13000  |             | 1A, 2A, 5B, 5C, 9N | Wide Flood                                        |
|                                                                                    |            | 21530 500                         |             | 120   | 24        | CC-8            | 9.37 | 7   | 1000             | 10850          |               |        |             |                    | Clear, BB                                         |
|                                                                                    |            | 21532 500                         |             | 130   | 24        | CC-8            | 9.37 | 7   | 1000             | 10850          |               |        |             |                    | Clear, BB                                         |
|                                                                                    |            | 21581 500/IF                      |             | 130   | 24        | CC-8            | 9.37 | 7   | 1000             | 10850          |               |        |             |                    | Inside Frost, BB                                  |
|  | Mog        | 500 21651 500/99IF                |             | 130   | 24        | C-9             | 9.75 | 7   | 2000             | 9070           |               |        |             |                    | I.F.-Extended Service, BB                         |
|                                                                                    |            | 21643 500/99                      |             | 130   | 24        | C-9             | 9.75 | 7   | 2000             | 9070           |               |        |             |                    | Clear-Extended Service, BB                        |
|                                                                                    |            | 21687 500PS40                     |             | 120   | 24        | C-9             | 9.75 | 7   | 1000             | 9900           |               |        |             |                    | Clear, BB                                         |

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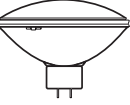
| Shape                                 | Base          | Order Watts | Code  | Description        | Volts | Case Qty. | Filament Design | MOL   | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP  | Beam Spread | Footnotes      | Additional Information                                                              |
|---------------------------------------|---------------|-------------|-------|--------------------|-------|-----------|-----------------|-------|------|------------------|----------------|---------------|-------|-------------|----------------|-------------------------------------------------------------------------------------|
| <b>INCANDESCENT LAMPS (CONTINUED)</b> |               |             |       |                    |       |           |                 |       |      |                  |                |               |       |             |                |                                                                                     |
| <b>500 WATTS (CONTINUED)</b>          |               |             |       |                    |       |           |                 |       |      |                  |                |               |       |             |                |                                                                                     |
| R40                                   | Mog           | 500         | 21734 | 500R/3FL           | 120   | 24        | CC-2V           | 7.25  |      | 2000             | 6500           |               |       |             | 2A, 2B, 5B, 9E | Reflector Flood-I.F. BB, HRG                                                        |
|                                       |               |             | 21736 | 500R/3FL           | 130   | 24        | CC-2V           | 7.25  |      | 2000             | 6500           |               |       |             | 2A, 2B, 5B, 9E | Reflector Flood-I.F. BB, HRG                                                        |
| R52                                   | Mog           | 500         | 21761 | 500R52             | 130   | 12        | C-7A            | 11.75 |      | 2000             | 7600           |               |       |             |                | Reflector High Bay-Light I.F. BB                                                    |
| T20                                   | Med BiPost    | 500         | 21872 | 500T20/50          | 130   | 12        | C-13            | 6.5   | 4    | 1000             | 9800           |               |       |             | 8A, 9G         | I.F. HRG                                                                            |
| <b>750 WATTS</b>                      |               |             |       |                    |       |           |                 |       |      |                  |                |               |       |             |                |                                                                                     |
| PS52                                  | Mog           | 750         | 22000 | 750                | 130   | 12        | CC-8            | 13    | 9.5  | 1000             | 17040          |               |       |             | 5D, 5E         | Clear, BB                                                                           |
| T24                                   | Med BiPost    | 750         | 22117 | 750T24             | 130   | 24        | C-13            | 9.18  | 5.5  | 1000             | 14800          |               |       |             | 8A, 9G         | Inside Frost, HRG                                                                   |
| <b>1000 WATTS</b>                     |               |             |       |                    |       |           |                 |       |      |                  |                |               |       |             |                |                                                                                     |
| PS52                                  | Mog           | 1000        | 22260 | 1000               | 130   | 12        | CC-8            | 13    | 9.5  | 1000             | 23740          |               |       |             | 5D, 5E         | Clear, BB                                                                           |
|                                       |               |             | 22301 | 1000/99            | 130   | 12        | C-7A            | 13    | 9.5  | 2500             | 19800          |               |       |             | 5D, 5E         | Clear-Extended Service, BB                                                          |
|                                       |               |             | 22280 | 1000               | 250   | 12        | C-7A            | 13    | 9.5  | 2000             | 17700          |               |       |             | 5D, 5E         | Clear, BB                                                                           |
|                                       |               |             | 22284 | 1000               | 277   | 12        | C-7A            | 13    | 9.5  | 2000             | 17700          |               |       |             | 5D, 5E         | Clear, BB                                                                           |
| T24                                   | Med BiPost    | 1000        | 22479 | 1M/T24             | 120   | 24        | C-13            | 9.18  | 5.5  | 1000             | 21200          |               |       |             | 8A, 9G         | Inside Frost, HRG                                                                   |
| <b>MISC. INCANDESCENT LAMP TYPES</b>  |               |             |       |                    |       |           |                 |       |      |                  |                |               |       |             |                |                                                                                     |
| R40                                   | Med           |             | 23423 | 21A/R40/FL         | 12    | 24        | C-2V            | 6.68  |      | 1000             |                |               |       |             | 2C, 5A, 5E     | Reflector Flood-I.F. Swimming pool. BDTH, HORIZ, HRG, BB                            |
| T8                                    | SC Bay        |             | 23326 | 7.5A/T8/92SC       | 10    | 24        | C-8Z            | 3.12  | 1.75 | 100              | 1620           |               |       |             |                | Clear-Sound Reproduction Optical Comparator. Source WxH: 1.8 x 4.6mm. ANSI: BXE, BB |
| <b>EXPORT-ONLY</b>                    |               |             |       |                    |       |           |                 |       |      |                  |                |               |       |             |                |                                                                                     |
| <b>65 WATTS</b>                       |               |             |       |                    |       |           |                 |       |      |                  |                |               |       |             |                |                                                                                     |
| PAR38                                 | Med Skirt     | 65          | 14505 | 75PAR/SP/65/WM/EX  | 130   | 12        | CC-6            | 5.31  |      | 2000             | 675            | 2675          | 5900  | 14          | 1A, 2A, 2B     | Watt-Miser®, Reflector                                                              |
|                                       |               |             | 14506 | 75PAR/FL/65WM/EX   | 130   | 12        | CC-6            | 5.31  |      | 2000             | 675            | 2675          | 1750  | 30          | 1A, 2A, 2B     | Watt-Miser®, Flood                                                                  |
| <b>75 WATTS</b>                       |               |             |       |                    |       |           |                 |       |      |                  |                |               |       |             |                |                                                                                     |
| PAR38                                 | Med Skirt     | 75          | 14510 | 75PAR/FL/EX        | 120   | 12        | CC-6            | 5.31  |      | 2000             | 765            | 2700          | 1750  | 33          | 1A, 2A, 2B     | Flood                                                                               |
| <b>85 WATTS</b>                       |               |             |       |                    |       |           |                 |       |      |                  |                |               |       |             |                |                                                                                     |
| PAR38                                 | Med Skirt     | 85          | 14509 | 100PAR/FL/85WM/EX  | 120   | 6         | CC-6            | 5.31  |      | 2000             | 930            | 2700          | 2000  | 37          | 1A, 2A, 2B     | Miser® Flood                                                                        |
| <b>120 WATTS</b>                      |               |             |       |                    |       |           |                 |       |      |                  |                |               |       |             |                |                                                                                     |
| PAR38                                 | Med Skirt     | 120         | 14501 | 150PAR/FL/120WM/EX | 120   | 12        | CC-6            | 5.31  |      | 2000             | 1370           | 2725          | 3600  | 30          | 1A, 2A, 2B     | Watt-Miser®, Flood                                                                  |
|                                       |               |             | 14502 | 150PAR/SP/120WM/EX | 120   | 12        | CC-6            | 5.31  |      | 2000             | 1370           | 2725          | 9200  | 18          | 1A, 2A, 2B     | Watt-Miser®, Reflector                                                              |
|                                       |               |             | 14503 | 150PAR/FL/120WM/EX | 130   | 12        | CC-6            | 5.31  |      | 2000             | 1370           | 2725          | 3600  | 30          | 1A, 2A, 2B     | Watt-Miser®, Flood                                                                  |
| <b>150 WATTS</b>                      |               |             |       |                    |       |           |                 |       |      |                  |                |               |       |             |                |                                                                                     |
| PAR38                                 | Med Skirt     | 150         | 14531 | 150PAR/FL/EX       | 120   | 12        | CC-6            | 5.31  |      | 2000             | 1740           | 2775          | 3100  | 36          | 1A, 2A, 2B     | Flood                                                                               |
|                                       |               |             | 14535 | 150PAR/SP/EX       | 120   | 12        | CC-6            | 5.31  |      | 2000             | 1740           | 2775          | 12000 | 16          | 1A, 2A, 2B     | Reflector                                                                           |
| <b>E27 BASE-EXPORT</b>                |               |             |       |                    |       |           |                 |       |      |                  |                |               |       |             |                |                                                                                     |
| <b>80 WATTS</b>                       |               |             |       |                    |       |           |                 |       |      |                  |                |               |       |             |                |                                                                                     |
| PAR38                                 | Skirted (E27) | 80          | 18180 | 80PAR/SP/27        | 220/0 | 12        |                 |       |      |                  |                |               |       |             | 1A, 2A, 2B     | Clear Reflector                                                                     |
| <b>100 WATTS</b>                      |               |             |       |                    |       |           |                 |       |      |                  |                |               |       |             |                |                                                                                     |
| PAR38                                 | Skirted (E27) | 100         | 38854 | 100PAR/FL/27       | 220/0 | 12        | CC-6            | 5.5   |      | 2000             | 800            | 2600          | 1500  | 35          | 1A, 2A, 2B     | Clear Flood                                                                         |
|                                       |               |             | 42711 | 100PAR/FL/27       | 240/0 | 12        | CC-6            | 5.5   |      | 2000             | 800            | 2600          | 1500  | 35          | 1A, 2A, 2B     | Clear Flood                                                                         |



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| Shape                                                                              | Base  | Order Watts | Code | Description               | Volts | Case Qty. | Filament Design | MOL  | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP   | Beam Spread | Footnotes          | Additional Information                                    |
|------------------------------------------------------------------------------------|-------|-------------|------|---------------------------|-------|-----------|-----------------|------|------|------------------|----------------|---------------|--------|-------------|--------------------|-----------------------------------------------------------|
| <b>E27 BASE-EXPORT (CONTINUED)</b>                                                 |       |             |      |                           |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
| <b>120 WATTS</b>                                                                   |       |             |      |                           |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
|    | PAR38 | Skirted     | 120  | <b>18172 120PAR/FL/27</b> | 220/0 | 12        | CC-6            | 5.5  |      | 2000             | 1150           | 2675          | 2300   | 35          | 1A, 2A, 2B         | Clear Flood                                               |
|                                                                                    |       |             |      | <b>18173 120PAR/FL/27</b> | 240/0 | 12        | CC-6            | 5.5  |      | 2000             | 1050           | 2675          | 2300   | 35          | 1A, 2A, 2B         | Clear Flood                                               |
|                                                                                    | PAR56 | Scrw Term   | 120  | <b>19023 120PAR56VNSP</b> | 12    | 12        | C-6             | 4.5  |      | 2000             | 1050           | 2750          | 60000  |             | 1A, 2A, 5B, 5C, 9N | Very Narrow Reflector                                     |
|                                                                                    |       |             |      | <b>19024 120PAR56/MFL</b> | 12    | 12        | C-6             | 4.5  |      | 2000             | 1050           | 2750          | 19000  |             | 1A, 2A, 5B, 5C, 9N | Medium Flood                                              |
|                                                                                    |       |             |      | <b>19025 120PAR56/WFL</b> | 12    | 12        | C-6             | 4.5  |      | 2000             | 1050           | 2750          | 5625   |             | 1A, 2A, 5B, 5C, 9N | Wide Flood                                                |
| <b>150 WATTS</b>                                                                   |       |             |      |                           |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
|    | PAR38 | Skirted     | 150  | <b>40033 150PAR/FL/27</b> | 220/0 | 12        | CC-6            | 5.5  |      | 2000             | 1350           | 2650          | 2450   | 35          | 1A, 2A, 2B         | Clear Flood                                               |
|                                                                                    |       |             |      | <b>40035 150PAR/FL/27</b> | 240/0 | 12        | CC-6            | 5.5  |      | 2000             | 1350           | 2650          | 2450   | 35          | 1A, 2A, 2B         | Clear Flood                                               |
| <b>EXPORT PAR</b>                                                                  |       |             |      |                           |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
| <b>300 WATTS</b>                                                                   |       |             |      |                           |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
|    | PAR56 | GX16DEXT    | 300  | <b>20852 300PAR56/MFL</b> | 230   | 12        | CC-13           | 5    |      | 2000             | 3450           |               |        |             | 1A, 2A, 5B, 5C, 9N | Medium Flood                                              |
|                                                                                    |       |             |      | <b>20853 300PAR56/NSP</b> | 230   | 12        | CC-13           | 5    |      | 2000             | 3450           |               |        |             | 1A, 2A, 5B, 5C, 9N | Narrow Reflector                                          |
|                                                                                    |       |             |      | <b>20854 300PAR56/WFL</b> | 230   | 12        | CC-13           | 5    |      | 2000             | 3450           |               |        |             | 1A, 2A, 5B, 5C, 9N | Wide Flood                                                |
|                                                                                    |       |             |      | <b>18676 300PAR56/NSP</b> | 240/0 | 12        | CC-13           | 5    |      | 2000             | 3450           |               |        |             | 1A, 2A, 5B, 5C, 9N | Narrow Reflector                                          |
|                                                                                    |       |             |      | <b>18677 300PAR56/MFL</b> | 240/0 | 12        | CC-13           | 5    |      | 2000             | 3450           |               |        |             | 1A, 2A, 5B, 5C, 9N | Medium Flood                                              |
|                                                                                    |       |             |      | <b>18678 300PAR56/WFL</b> | 240/0 | 12        | CC-13           | 5    |      | 2000             | 3450           |               |        |             | 1A, 2A, 5B, 5C, 9N | Wide Flood                                                |
| <b>LUMEN RATED TRAFFIC SIGNAL</b>                                                  |       |             |      |                           |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
| <b>165 WATTS</b>                                                                   |       |             |      |                           |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
|  | P25   | Med         | 165  | <b>20094 1950L/P25/TS</b> | 120   | 60        | C-9             | 4.75 | 3    | 8000             | 1950           |               |        |             |                    | Clear-Traffic Signal (BDTH), BB                           |
|                                                                                    |       |             |      | <b>20097 1950L/P25/TS</b> | 130   | 60        | C-9             | 4.75 | 3    | 8000             | 1950           |               |        |             |                    | Clear-Traffic Signal (BDTH), BB                           |
| <b>AIRPORT</b>                                                                     |       |             |      |                           |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
| <b>30 WATTS</b>                                                                    |       |             |      |                           |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
|   | T10   | Med Pf      | 30   | <b>23294 6.6A/T10/1P</b>  |       | 60        | C-2V            | 3.93 | 1.5  | 1000             | 400            |               |        |             |                    | Clear                                                     |
| <b>40 WATTS</b>                                                                    |       |             |      |                           |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
|   | T10   | Med Pf      | 40   | <b>15921 40T10P</b>       | 120   | 60        | CC-2V           | 3.93 | 1.5  | 1000             | 400            |               |        |             |                    | Clear                                                     |
| <b>45 WATTS</b>                                                                    |       |             |      |                           |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
|   | PAR56 | Scrw Term   | 45   | <b>23310 6.6A/PAR56/5</b> |       | 12        | C-8             | 4.5  |      | 1000             | 700            |               |        |             |                    | Stippled cover                                            |
|                                                                                    | T10   | Med Pf      | 45   | <b>23295 6.6A/T10P</b>    |       | 60        | C-2V            | 3.93 | 1.5  | 1000             | 675            |               |        |             |                    | Clear                                                     |
| <b>120 WATTS</b>                                                                   |       |             |      |                           |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
|  | PAR64 | Scrw Term   | 120  | <b>39395 120PAR</b>       | 6     | 12        | C-6             | 4    |      | 3000             | 780            |               | 180000 |             |                    | Transmissometer. Filament Shielded. Very Narrow Reflector |
| <b>200 WATTS</b>                                                                   |       |             |      |                           |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
|   | T14   | Med Pf      | 200  | <b>23298 6.6A/T14P</b>    |       | 24        | C-13            | 5.75 | 2.18 |                  | 4900           |               |        |             |                    | Clear                                                     |
| <b>204 WATTS</b>                                                                   |       |             |      |                           |       |           |                 |      |      |                  |                |               |        |             |                    |                                                           |
|   | T14   | Med Pf      | 204  | <b>23300 6.6A/T14/2P</b>  |       | 24        | C-13            | 5.75 | 2.18 | 500              | 4220           |               |        |             |                    | Clear                                                     |

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| Shape                           | Base           | Order Watts Code          | Description | Volts | Case Qty. | Filament Design | MOL   | LCL       | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information                            |
|---------------------------------|----------------|---------------------------|-------------|-------|-----------|-----------------|-------|-----------|------------------|----------------|---------------|------|-------------|-----------|---------------------------------------------------|
| <b>AIRPORT (CONTINUED)</b>      |                |                           |             |       |           |                 |       |           |                  |                |               |      |             |           |                                                   |
| <b>620 WATTS</b>                |                |                           |             |       |           |                 |       |           |                  |                |               |      |             |           |                                                   |
| PS40                            | Mog Pf         | 620 21950 620PS40P        |             | 120   | 24        | C-9             |       | 10.065.68 | 3000             | 11200          |               |      |             |           | Clear                                             |
|                                 |                | 21952 620PS40P            |             | 130   | 24        | C-9             |       | 10.065.68 | 3000             | 11200          |               |      |             |           | Clear                                             |
| <b>1000 WATTS</b>               |                |                           |             |       |           |                 |       |           |                  |                |               |      |             |           |                                                   |
| T20                             | Mog BiPost1000 | 22429 1M/T20BP            |             | 120   | 12        | C-13            | 9.5   | 4         | 500              | 22000          |               |      |             |           | Clear-Beacon, HRG                                 |
| <b>1200 WATTS</b>               |                |                           |             |       |           |                 |       |           |                  |                |               |      |             |           |                                                   |
| T20                             | Mog BiPost1200 | 22524 1200T20             |             | 115   | 12        | CC-8            | 9.5   | 4         | 750              | 29600          |               |      |             |           | Clear-Beacon, HRG                                 |
| <b>MULTIPLE STREET LIGHTING</b> |                |                           |             |       |           |                 |       |           |                  |                |               |      |             |           |                                                   |
| A23                             | Med            | 105 42392 105A23/12       |             | 125   | 120       | C-9             | 5.93  | 4.43      | 12000            |                |               |      |             |           | Clear, BB                                         |
| PS25                            | Med            | 189 19939 189PS25/64      |             | 130   | 60        | C-9             | 6.93  | 5.25      | 3000             |                |               |      |             |           | Clear, BB                                         |
|                                 |                | 205 42663 205PS25/12      |             | 125   | 60        | C-9             | 6.93  | 5.25      | 12000            |                |               |      |             |           | Clear, BB                                         |
| PS35                            | Mog            | 295 20772 295PS35/58      |             | 125   | 24        | C-9             | 9.37  | 7         | 3000             |                |               |      |             |           | Clear, BB                                         |
|                                 |                | 327 21307 327PS35         |             | 125   | 24        | C-9             | 9.37  | 7         | 6000             |                |               |      |             |           | Clear, BB                                         |
| PS40                            | Mog            | 405 21408 405PS40/54      |             | 120   | 24        | C-9             | 9.75  | 7         | 3000             | 6850           |               |      |             |           | Clear, BB                                         |
| <b>DECORATIVE</b>               |                |                           |             |       |           |                 |       |           |                  |                |               |      |             |           |                                                   |
| <b>3 WATTS</b>                  |                |                           |             |       |           |                 |       |           |                  |                |               |      |             |           |                                                   |
| CA10                            | Cand           | 3 81167 3CAC/FF/CD1-6PK   |             | 120   | 30        |                 | 4.125 |           | 2000             |                |               |      |             |           | Flicker Flame                                     |
| CA10                            | Med            | 3 81168 3CAM/FF/CD1-6PK   |             | 120   | 30        |                 | 4.125 |           | 2000             |                |               |      |             |           | Flicker Flame                                     |
| <b>15 WATTS</b>                 |                |                           |             |       |           |                 |       |           |                  |                |               |      |             |           |                                                   |
| B8                              | Cand           | 15 81559 15BC/CF/CD2-TRAY |             | 120   | 30        | C-7A            | 3.19  |           | 1500             |                |               |      |             |           | Blunt Tip, Ceiling Fan, Vibration Resistant       |
|                                 |                | 48400 15BC CD2 6PK        |             | 120   | 30        | C-7A            | 3.87  |           | 1500             |                |               |      |             |           | Clear-Blunt Tip                                   |
| B10                             | Cand           | 15 46678 15 BFC PQ2/5     |             | 120   | 25        | C-7A            | 3.87  |           | 1500             |                |               |      |             |           | Faceted-Blunt Tip                                 |
| CA8                             | Cand           | 15 41524 15CAC/L          |             | 120   | 120       | C-7A            | 4.12  |           | 4000             |                |               |      |             |           | Clear-Bent Tip, LL                                |
|                                 |                | 48403 15CAC/F CD2 6PK     |             | 120   | 30        | C-7A            | 4.12  |           | 1500             |                |               |      |             |           | Frost-Bent Tip                                    |
| G16.5                           | Cand           | 15 12578 15GC/L           |             | 120   | 60        | C-7A            | 3     |           | 4000             |                |               |      |             |           | Clear-Globe, LL                                   |
| <b>25 WATTS</b>                 |                |                           |             |       |           |                 |       |           |                  |                |               |      |             |           |                                                   |
| B8                              | Cand           | 25 81560 25BC/CF/CD2-TRAY |             | 120   | 30        | C-7A            | 3.19  |           | 1500             |                |               |      | 5E, 9D      |           | Blunt Tip, Ceiling Fan, Vibration Resistant, BDTH |
| B10                             | Cand           | 25 15787 25BC 25PK        |             | 120   | 200       | C-7A            | 3.75  |           | 1500             |                |               |      |             |           | Clear-Blunt Tip                                   |
|                                 |                | 46679 25BFC PQ2/5         |             | 120   | 25        | CC-2V           | 3.75  |           | 1500             |                |               |      |             |           | Faceted-Blunt Tip                                 |
|                                 |                | 48700 25BC/RVL CD2        |             | 120   | 30        | CC-2V           | 3.75  |           | 1500             |                |               |      |             |           | Reveal® Clear-Blunt Tip                           |
| B13                             | Med            | 25 22756 25BM CD2         |             | 120   | 60        | C-9             | 4.62  |           | 1500             |                |               |      |             |           | Clear-Blunt Tip                                   |
| CA10                            | Cand           | 25 15777 25CAC 25PK       |             | 120   | 200       | CC-2V           | 4.12  |           | 1500             |                |               |      |             |           | Clear-Bent Tip                                    |
|                                 |                | 16045 25CAC CARD4         |             | 120   | 30        | CC-2V           | 4.12  |           | 1500             |                |               |      |             |           | Clear-Bent Tip                                    |
|                                 |                | 16046 25CAC/F CARD4       |             | 120   | 30        | CC-2V           | 4.12  |           | 1500             |                |               |      |             |           | Frost-Bent Tip                                    |
|                                 |                | 16365 25CAC/L-CD4         |             | 120   | 120       | CC-2V           | 4.12  |           | 4000             |                |               |      |             |           | Clear-Bent Tip, LL                                |
|                                 |                | 40045 25CAC/L             |             | 120   | 120       | CC-2V           | 4.12  |           | 4000             |                |               |      |             |           | Clear-Bent Tip, LL                                |
|                                 |                | 47933 25CAC CARD 2        |             | 120   | 30        | CC-2V           | 4.12  |           | 1500             |                |               |      |             |           | Clear-Bent Tip                                    |
| F15                             | Med            | 25 18890 25FM CD2 6PK     |             | 120   | 30        | C-6             | 4.37  |           | 1500             |                |               |      |             |           | Clear-Flame                                       |
|                                 |                | 18891 25FM/A CD2 6PK      |             | 120   | 30        | C-6             | 4.37  |           | 1500             |                |               |      |             |           | Amber-Flame                                       |
|                                 |                | 18894 25FM/AU CD2 6PK     |             | 120   | 30        | C-6             | 4.37  |           | 1500             |                |               |      |             |           | Auradescent-Flame                                 |
|                                 |                | 18895 25FM/W CD2 6PK      |             | 120   | 30        | C-6             | 4.37  |           | 1500             |                |               |      |             |           | White-Flame                                       |
| G16.5                           | Cand           | 25 11303 25GC 12PK        |             | 120   | 120       | CC-2V           | 3     |           | 1500             |                |               |      |             |           | Clear-Globe                                       |
|                                 |                | 15790 25GC 25PK           |             | 120   | 100       | CC-2V           | 3     |           | 1500             |                |               |      |             |           | Clear-Globe                                       |
|                                 |                | 17722 25GC CD2            |             | 120   | 60        | CC-2V           | 3     |           | 1500             |                |               |      |             |           | Clear-Globe                                       |



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| Shape                                                                              | Base | Order Watts | Code  | Description      | Volts | Case Qty. | Filament Design | MOL   | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information                                  |
|------------------------------------------------------------------------------------|------|-------------|-------|------------------|-------|-----------|-----------------|-------|-----|------------------|----------------|---------------|------|-------------|-----------|---------------------------------------------------------|
| DECORATIVE (CONTINUED)                                                             |      |             |       |                  |       |           |                 |       |     |                  |                |               |      |             |           |                                                         |
| 25 WATTS (CONTINUED)                                                               |      |             |       |                  |       |           |                 |       |     |                  |                |               |      |             |           |                                                         |
|    | Cand |             | 23510 | 25GC/AU-CD2      | 120   | 60        | CC-2V           | 3     |     | 1500             |                |               |      |             |           | Auradescent - Globe                                     |
|                                                                                    |      |             | 27301 | 25GC CD4         | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             |           | Clear-Globe                                             |
|                                                                                    |      |             | 27302 | 25GC/W CD4       | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             |           | White-Globe                                             |
|                                                                                    |      |             | 39679 | 25GC/W 12PK      | 120   | 120       | CC-2V           | 3     |     | 1500             |                |               |      |             |           | White-Globe                                             |
|                                                                                    |      |             | 43158 | 25GC-L           | 120   | 60        | CC-2V           | 3     |     | 4000             |                |               |      |             |           | Clear-Globe, LL                                         |
|                                                                                    |      |             | 48703 | 25GC/RVL CD2     | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             |           | Reveal® Clear-Globe                                     |
|    | Med  | 25          | 31106 | 25GM/CL-PQ2/6    | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             |           | Clear-Globe, Medium Base                                |
|                                                                                    |      |             | 31107 | 25GM/W-PQ2/6     | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             |           | White-Globe, Medium Base                                |
|                                                                                    |      |             | 31108 | 25GM/AU-PQ2/6    | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             |           | Auradescent-Globe, Medium Base                          |
|    | Med  | 25          | 12982 | 25G25/W 6PK      | 120   | 6         | C-9             | 4.5   |     | 1500             |                |               |      |             |           | White-Globe                                             |
|                                                                                    |      |             | 12983 | 25G25 6PK        | 120   | 6         | C-9             | 4.5   |     | 1500             |                |               |      |             |           | Clear-Globe                                             |
|                                                                                    |      |             | 20408 | 25G25/L/24       | 120   | 24        | C-9             | 4.5   |     | 3000             |                |               |      |             |           | Clear-Globe, LL                                         |
|                                                                                    |      |             | 20410 | 25G25/W/L/24     | 120   | 24        | C-9             | 4.5   |     | 3000             |                |               |      |             |           | White-Globe, LL                                         |
|                                                                                    |      |             | 25545 | 25G25 CPK        | 120   | 24        | C-9             | 4.5   |     | 1500             |                |               |      |             |           | Clear-Globe                                             |
|                                                                                    |      |             | 25546 | 25G25/W CPK      | 120   | 24        | C-9             | 4.5   |     | 1500             |                |               |      |             |           | White-Globe                                             |
| 40 WATTS                                                                           |      |             |       |                  |       |           |                 |       |     |                  |                |               |      |             |           |                                                         |
|    | Cand | 40          | 81561 | 40BC/CF/CD2-Tray | 120   | 30        | C-7A            | 3.19  |     | 1500             |                |               |      |             | 5E, 9D    | Clear-Blunt Tip, Ceiling Fan, Vibration Resistant, BDTH |
|   | Cand | 40          | 15788 | 40BC 25PK        | 120   | 200       | CC-2V           | 3.75  |     | 1500             |                |               |      |             |           | Clear-Blunt Tip                                         |
|                                                                                    |      |             | 19110 | 40BC CD2 6PK     | 120   | 30        | CC-2V           | 3.75  |     | 1500             |                |               |      |             |           | Clear-Blunt Tip                                         |
|                                                                                    |      |             | 19981 | 40BC CARD4       | 120   | 30        | CC-2V           | 3.75  |     | 1500             |                |               |      |             |           | Clear-Blunt Tip                                         |
|                                                                                    |      |             | 27292 | 40BFC CD2 6PK    | 120   | 30        | CC-2V           | 3.75  |     | 1500             |                |               |      |             |           | Faceted-Blunt Tip                                       |
|                                                                                    |      |             | 48701 | 40BC/RVL CD2     | 120   | 30        | CC-2V           | 3.75  |     | 1500             |                |               |      |             |           | Reveal® Clear-Blunt Tip                                 |
|                                                                                    |      |             | 48702 | 40BC/RVL CD4     | 120   | 30        | CC-2V           | 3.75  |     | 1500             |                |               |      |             |           | Reveal® Clear-Blunt Tip                                 |
|  | Med  | 40          | 12993 | 40BM CD2         | 120   | 60        | C-9             | 4.62  |     | 1500             |                |               |      |             |           | Clear-Blunt Tip                                         |
|                                                                                    |      |             | 27310 | 40BM/CD4         | 120   | 6         | C-9             | 4.62  |     | 1500             |                |               |      |             |           | Clear-Blunt Tip                                         |
|                                                                                    |      |             | 40891 | 40BFM PQ2/6      | 120   | 30        | C-9             | 4.62  |     | 1500             |                |               |      |             |           | Faceted-Blunt Tip                                       |
|                                                                                    |      |             | 48699 | 40BM/RVL CD2     | 120   | 30        | C-9             | 4.625 |     | 1500             |                |               |      |             |           | Reveal® Clear-Blunt Tip                                 |
|  | Med  | 40          | 48391 | 40CAM/F CD2 6PK  | 120   | 30        | CC-2V           | 4.56  |     | 1500             |                |               |      |             |           | Frost-Bent Tip                                          |
|                                                                                    |      |             | 16049 | 40CAM CARD4      | 120   | 30        | CC-2V           | 4.56  |     | 1500             |                |               |      |             |           | Clear-Bent Tip                                          |
|                                                                                    |      |             | 22813 | 40CAM/LL/BB CD2  | 120   | 30        | CC-2V           | 4.56  |     | 3000             |                |               |      |             |           | Clear-Bent Tip, LL, Post Light                          |
|  | Cand | 40          | 15778 | 40CAC 25PK       | 120   | 200       | CC-2V           | 4.12  |     | 1500             |                |               |      |             |           | Clear-Bent Tip                                          |
|                                                                                    |      |             | 16047 | 40CAC CARD4      | 120   | 30        | CC-2V           | 4.12  |     | 1500             |                |               |      |             |           | Clear-Bent Tip                                          |
|                                                                                    |      |             | 16048 | 40CAC/F CARD4    | 120   | 30        | CC-2V           | 4.12  |     | 1500             |                |               |      |             |           | Frost-Bent Tip                                          |
|                                                                                    |      |             | 19107 | 40CAC CD2 6PK    | 120   | 30        | CC-2V           | 4.12  |     | 1500             |                |               |      |             |           | Clear-Bent Tip                                          |
|                                                                                    |      |             | 22812 | 40CAC/LL/BB CD2  | 120   | 30        | CC-2V           | 4.12  |     | 3000             |                |               |      |             |           | Clear-Bent Tip, LL, Post Light                          |
|                                                                                    |      |             | 40050 | 40CAC/L          | 120   | 120       | CC-2V           | 4.12  |     | 3000             |                |               |      |             |           | Clear-Bent Tip, LL                                      |
|  | Med  | 40          | 18896 | 40FM CD2 6PK     | 120   | 30        | C-6             | 4.37  |     | 1500             |                |               |      |             |           | Clear-Flame                                             |
|                                                                                    |      |             | 18897 | 40FM/AU CD2 6PK  | 120   | 30        | C-6             | 4.37  |     | 1500             |                |               |      |             |           | Auradescent-Flame                                       |
|                                                                                    |      |             | 18899 | 40FM/W CD2 6PK   | 120   | 30        | C-6             | 4.37  |     | 1500             |                |               |      |             |           | White-Flame                                             |
|  | Cand | 40          | 14958 | 40GC 12PK        | 120   | 120       | CC-2V           | 3     |     | 1500             |                |               |      |             | 5E, 9D    | Clear-Globe, BDTH                                       |
|                                                                                    |      |             | 17730 | 40GC CD/2        | 120   | 60        | CC-2V           | 3     |     | 1500             |                |               |      |             | 5E, 9D    | Clear-Globe, BDTH                                       |
|                                                                                    |      |             | 23511 | 40GC/AU CD/2     | 120   | 60        | CC-2V           | 3     |     | 1500             |                |               |      |             | 5E, 9D    | Auradescent - Globe, BDTH                               |
|                                                                                    |      |             | 27303 | 40GC CD4         | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             | 5E, 9D    | Clear-Globe, BDTH                                       |
|                                                                                    |      |             | 27304 | 40GC/W CD4       | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             | 5E, 9D    | White-Globe, BDTH                                       |
|                                                                                    |      |             | 48704 | 40GC/RVL CD2     | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             | 5E, 9D    | Reveal® Clear-Globe, BDTH                               |
|                                                                                    |      |             | 48705 | 40GC/W/RVL CD2   | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             | 5E, 9D    | Reveal® White-Globe, BDTH                               |
|                                                                                    |      |             | 31109 | 40GM/CL-PQ2/6    | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             | 5E, 9D    | Clear-Globe, Medium Base, BDTH                          |
|  | Med  |             | 31110 | 40GM/W-PQ2/6     | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             | 5E, 9D    | White-Globe, Medium Base, BDTH                          |
|                                                                                    |      |             | 31113 | 40GM/AU-PQ2/6    | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             | 5E, 9D    | Auradescent-Globe, Medium Base, BDTH                    |

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## Incandescent Lamps

| Shape                         | Base | Order Watts | Code  | Description      | Volts | Case Qty. | Filament Design | MOL   | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information                     |
|-------------------------------|------|-------------|-------|------------------|-------|-----------|-----------------|-------|-----|------------------|----------------|---------------|------|-------------|-----------|--------------------------------------------|
| <b>DECORATIVE (CONTINUED)</b> |      |             |       |                  |       |           |                 |       |     |                  |                |               |      |             |           |                                            |
| <b>40 WATTS (CONTINUED)</b>   |      |             |       |                  |       |           |                 |       |     |                  |                |               |      |             |           |                                            |
|                               | Med  | 40          | 12979 | 40G25/W 6PK      | 120   | 6         | C-9             | 4.5   |     | 1500             |                |               |      |             |           | White-Globe                                |
|                               |      |             | 12980 | 40G25 6PK        | 120   | 6         | C-9             | 4.5   |     | 1500             |                |               |      |             |           | Clear-Globe                                |
|                               |      |             | 20419 | 40G25/L/24       | 120   | 24        | C-9             | 4.5   |     | 3000             |                |               |      |             |           | Clear-Globe, LL                            |
|                               |      |             | 20420 | 40G25/W/L/24     | 120   | 24        | C-9             | 4.5   |     | 3000             |                |               |      |             |           | White-Globe, LL                            |
|                               |      |             | 25547 | 40G25/W CPK      | 120   | 24        | C-9             | 4.5   |     | 1500             |                |               |      |             |           | White-Globe                                |
|                               |      |             | 25548 | 40G25 CPK        | 120   | 24        | C-9             | 4.5   |     | 1500             |                |               |      |             |           | Clear-Globe                                |
|                               |      |             | 46675 | 40DG25/F PQ1/6   | 120   | 30        | C-9             | 4.5   |     | 1500             |                |               |      |             |           | Designer-Frosted Swirl Top                 |
|                               |      |             | 48694 | 40G25C/RVL PQ1/6 | 120   | 6         | C-9             | 4.5   |     | 1500             |                |               |      |             |           | Reveal®                                    |
|                               |      |             | 48695 | 40G25W/RVL PQ1/6 | 120   | 6         | C-9             | 4.5   |     | 1500             |                |               |      |             |           | Reveal®                                    |
|                               | Med  | 40          | 27499 | 40G30/W          | 120   | 24        | CC-6            | 5     |     | 2500             |                |               |      |             |           | White-Globe                                |
|                               | Med  | 40          | 36191 | 40G40/W 6PK      | 120   | 6         | CC-6            | 6.93  |     | 2500             |                |               |      |             |           | White-Globe                                |
|                               |      |             | 37914 | 40G40/CL         | 120   | 24        | CC-6            | 6.93  |     | 2500             |                |               |      |             |           | Clear-Globe                                |
|                               | Med  | 40          | 48707 | 40T10/RVL CD1    | 120   | 25        | C-8             | 5.625 |     | 1000             |                |               |      |             |           | Reveal® Clear-Showcase                     |
|                               |      |             | 48709 | 40T10/F/RVL CD1  | 120   | 25        | C-8             | 5.625 |     | 1000             |                |               |      |             |           | Reveal® Frost-Showcase                     |
|                               | Med  | 40          | 46680 | 40M14/F/CF PQ2/6 | 120   | 30        | C-9             | 3.25  |     | 1500             |                |               |      |             |           | Frost-Swirl Top                            |
| <b>60 WATTS</b>               |      |             |       |                  |       |           |                 |       |     |                  |                |               |      |             |           |                                            |
|                               | Cand | 60          | 27298 | 60BC/CD4         | 120   | 30        | CC-2V           | 3.75  |     | 1500             |                |               |      |             |           | Clear-Blunt Tip                            |
|                               |      |             | 48714 | 60BC/RVL CD2     | 120   | 30        | CC-2V           | 3.75  |     | 1500             |                |               |      |             |           | Reveal® Clear-Blunt Tip                    |
|                               |      |             | 48715 | 60BC/RVL CD4     | 120   | 30        | CC-2V           | 3.75  |     | 1500             |                |               |      |             |           | Reveal® Clear-Blunt Tip                    |
|                               | Med  | 60          | 22757 | 60BM CD/2        | 120   | 60        |                 |       |     |                  |                |               |      |             |           | Clear-Blunt Tip                            |
|                               |      |             | 27497 | 60BM/CD4         | 120   | 6         | C-9             | 4.62  |     | 1500             |                |               |      |             |           | Clear-Blunt Tip                            |
|                               |      |             | 48713 | 60BM/RVL CD2     | 120   | 30        | C-9             | 4.625 |     | 1500             |                |               |      | 2C, 9I      |           | Reveal® Clear-Blunt Tip                    |
|                               | Med  | 60          | 21009 | 60CAM CARD4      | 120   | 30        | CC-2V           | 4.56  |     | 1500             |                |               |      |             |           | Clear-Bent Tip, BDTH                       |
|                               |      |             | 48401 | 60CAM CD2 6PK    | 120   | 30        | CC-2V           | 4.56  |     | 1500             |                |               |      |             |           | Clear-Bent Tip                             |
|                               | Cand | 60          | 15781 | 60CAC 25PK       | 120   | 200       | CC-2V           | 4.12  |     | 1500             |                |               |      |             |           | Clear-Bent Tip                             |
|                               |      |             | 16050 | 60CAC CARD4      | 120   | 30        | CC-2V           | 4.12  |     | 1500             |                |               |      |             |           | Clear-Bent Tip                             |
|                               |      |             | 16051 | 60CAC/F CARD4    | 120   | 30        | CC-2V           | 4.12  |     | 1500             |                |               |      |             |           | Frost-Bent Tip                             |
|                               |      |             | 19153 | 60CAC CD/2 6PK   | 120   | 30        | CC-2V           | 4.12  |     | 1500             |                |               |      |             |           | Clear-Bent Tip                             |
|                               |      |             | 48404 | 60CAC/F CD2 6PK  | 120   | 30        | CC-2V           | 4.12  |     | 1500             |                |               |      |             |           | Frost-Bent Tip                             |
|                               | Cand | 60          | 23091 | 60GC CD/2        | 120   | 60        | CC-2V           | 3     |     | 1500             |                |               |      |             | 5E, 9D    | Clear-Globe, BDTH                          |
|                               |      |             | 40388 | 60GC CD4         | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             | 5E, 9D    | Clear-Globe, BDTH                          |
|                               |      |             | 40389 | 60GC/W CD4       | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             | 5E, 9D    | White-Globe, BDTH                          |
|                               | Med  | 60          | 31114 | 60GM/CL-PQ2/6    | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             | 5E, 9D    | Clear-Globe, Medium Base, BDTH             |
|                               |      |             | 31115 | 60GM/W-PQ2/6     | 120   | 30        | CC-2V           | 3     |     | 1500             |                |               |      |             | 5E, 9D    | White-Globe, Medium Base, BDTH             |
|                               | Med  | 60          | 14846 | 60G25 6PK        | 120   | 6         | C-9             | 4.5   |     | 1500             |                |               |      |             |           | Clear-Globe                                |
|                               |      |             | 14848 | 60G25/W 6PK      | 120   | 6         | C-9             | 4.5   |     | 1500             |                |               |      |             |           | White-Globe                                |
|                               |      |             | 20427 | 60G25/24         | 120   | 24        | C-9             | 4.5   |     | 1500             |                |               |      |             |           | Clear-Globe                                |
|                               |      |             | 20428 | 60G25/W/24       | 120   | 24        | C-9             | 4.5   |     | 1500             |                |               |      |             |           | White-Globe                                |
|                               | Med  | 60          | 14850 | 60G30/W 6PK      | 120   | 24        | CC-9            | 5     |     | 2500             |                |               |      |             |           | White-Globe. Retail Pack                   |
|                               | Med  | 60          | 14187 | 60G40 6PK        | 120   | 6         | CC-6            | 6.93  |     | 2500             |                |               |      |             |           | Clear-Globe                                |
|                               |      |             | 16741 | 60G40/W CPK      | 120   | 24        | CC-6            | 6.93  |     | 2500             |                |               |      |             |           | White-Globe                                |
|                               |      |             | 49780 | 60G40/W 6PK      | 120   | 6         | CC-6            | 6.93  |     | 2500             |                |               |      |             |           | White-Globe                                |
|                               | Med  | 60          | 48710 | 60T10/RVL CD1    | 120   | 25        | C-8             | 5.625 |     | 1000             |                |               |      |             |           | Reveal® Clear-Showcase                     |
| <b>75 WATTS</b>               |      |             |       |                  |       |           |                 |       |     |                  |                |               |      |             |           |                                            |
|                               | Med  | 75          | 28917 | 75E17/TF-PQ1/4   | 120   | 20        | CC-6            | 5     |     | 4000             |                |               |      |             |           | Post Light, Teflon® Coated, Saf-T-Gard® BB |
|                               | Med  | 75          | 36193 | 75G40/W 6PK      | 120   | 6         | CC-6            | 6.93  |     | 2500             |                |               |      |             |           | White-Globe                                |



# Incandescent Lamps

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| Shape                             | Base | Order Watts Code          | Description | Volts | Case Qty. | Filament Design | MOL  | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | CBCP | Beam Spread | Footnotes | Additional Information                                                                            |
|-----------------------------------|------|---------------------------|-------------|-------|-----------|-----------------|------|-----|------------------|----------------|---------------|------|-------------|-----------|---------------------------------------------------------------------------------------------------|
| <b>DECORATIVE (CONTINUED)</b>     |      |                           |             |       |           |                 |      |     |                  |                |               |      |             |           |                                                                                                   |
| <b>100 WATTS</b>                  |      |                           |             |       |           |                 |      |     |                  |                |               |      |             |           |                                                                                                   |
| F20                               | Med  | 100 44540 100F20/TF-PQ1/6 |             | 120   | 30        | CC-9            | 5    |     | 3000             |                |               |      |             |           | Post Light , Teflon® Coated, Saf-T-Gard® BB                                                       |
| G40                               | Med  | 100 16742 100G40/W CPK    |             | 120   | 24        | CC-6            | 6.93 |     | 2500             |                |               |      |             |           | White-Globe                                                                                       |
|                                   |      | 49781 100G40/W 6PK        |             | 120   | 6         | CC-6            | 6.93 |     | 2500             |                |               |      |             |           | White-Globe                                                                                       |
| <b>150 WATTS</b>                  |      |                           |             |       |           |                 |      |     |                  |                |               |      |             |           |                                                                                                   |
| G40                               | Med  | 150 16585 150G40/W        |             | 120   | 24        | CC-6            | 6.93 |     | 2500             |                |               |      |             |           | White-Globe                                                                                       |
| <b>PORTABLE LIGHTING PRODUCTS</b> |      |                           |             |       |           |                 |      |     |                  |                |               |      |             |           |                                                                                                   |
| R30                               | Med  | 75 44848 PLK-1            |             | 120   | 4         | CC-6            |      |     |                  |                |               |      | 2A, 5E, 9K  |           | Plant Light Kit includes one 75R30/PL Plant Light lamp, UL listed holder and information booklet. |

## GENERAL INFORMATION

1

### ▲ WARNING

#### Risk of electric shock

- Turn off power before inspection, installation or removal

2

### ▲ WARNING

#### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use in fixture rated for this product – see instructions
- Operate base down to horizontal only
- Keep away from bed coverings, drapes and other combustible materials
- Do not use in enclosed fixture or with lamp shade
- Use in a high intensity fixture rated for this product
- Do not use as a night light
- Burning position base down only

3

### ▲ WARNING

#### Lamp emits IR radiation which may cause eye injury

- Use in fixture approved for this product
- Do not use on infant, disabled, sleeping, or unconscious person/animal unable to avoid potential injury

4

### ▲ WARNING

#### Pressurized lamp-unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Operate lamp only in specified position

5

### ▲ WARNING

#### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Avoid direct water, liquid, or metal contact

6

### ▲ WARNING

#### Risk of burn

- Do not touch operating lamp

7

### ▲ CAUTION

#### Risk of burn

- Allow lamp to cool before handling
- Allow lamp/fixture to cool before handling
- Do not touch operating lamp

8

### ▲ CAUTION

#### Lamp may shatter and cause injury if broken

- Do not use excessive force when installing lamp

9

## OPERATING INSTRUCTIONS

- Burning position – base up
- Burning position – horizontal
- Burn base down only
- Burn base down to horizontal
- For best performance burn lamp within 45 degrees of vertical base up
- For best performance burn within 45 degree of base down to horizontal
- For best performance operate base up within 30° of vertical
- For best performance burn base down
- Do not burn in base up position
- To produce all three levels of light, this lamp should be tightened firmly, but not forcibly, in the socket to assure that all contacts are connected
- Should not be used in equipment where the base lamp will exceed 550°F (260°C)
- Will operate in any burning position, but fixed-socket usage other than base up, or continuous burning in any position in ambient temperatures above 150°F (66°C), may result in some loss of protective coating
- Reflectors and accessories may raise bulb temperature
- For use with heat-resistant connector supported by bulb rim or metal shell of base
- For best performance replace lamp if it blisters or darkens



## INCANDESCENT LAMPS CROSS REFERENCE

| GE<br>Description        | Osram/Sylvania<br>Description       | Philips<br>Description |
|--------------------------|-------------------------------------|------------------------|
| ORDER THIS<br>GE LAMP    | IF YOU CURRENTLY USE<br>THESE LAMPS |                        |
| INCANDESCENT LAMPS       |                                     |                        |
| 3S6/5 24PK 130V          | 3S6/5 130V                          | 3S6/5 120-130V         |
| 4C7 CARD 2               | 4C7/BL/2PK                          | BC-4C7                 |
| 4C7/W CD2                | 4C7/W/2PK 120V                      | BC4C7/W                |
| 10S11N                   | 10S11N/CL                           | 10S11N                 |
| 10S11N/F                 | 10S11/IF                            | 10S11N/IF              |
| 15S14/GR/CL 130V         | 15S14/CL 130V                       | —                      |
| 15CAC/F-CD/2             | —                                   | —                      |
| 25BC (120)               | 25B10C/T/BL/2PK                     | 25B101/2 (120)         |
| 25CAC (120)              | 25B10C/BL/2PK                       | 25BA9C (120)           |
| 25CAC/F (120)            | 25B10C/W/BL/2PK                     | 25BA9C/F (120)         |
| 25CAC/L (120)            | 25B10C/DL/BL                        | 25BA9C/4M              |
| 25FM CD2 (120)           | 25F (120-125)                       | 25F15 (120)            |
| 25GC (120)               | —                                   | 25G161/2C (120)        |
| 40A15                    | 40A15 120V                          | 40A15-SPB-130          |
| 40A 130V                 | 40A-130V                            | 40A-130V               |
| 40A/CL 130V              | 40R/CL-130V                         | 40A/CL-120-130         |
| 40R14/N/CD               | 40R14N/RP                           | 40R14/N                |
| 40S11N/1/F               | 40S11N/CF 120V                      | 40S11N/IF 120V         |
| 40T61/2/2                | 40T6.5/CL/BL/6PK                    | 40T6-1/2/2 120V        |
| 40T8                     | 40T8 120-130V                       | 40T8 115-125V          |
| 40T10                    | 40T10-120V                          | 40T10-120-130V         |
| 40A/34/WMP/99 (120, 130) | 40A/99/XL (120,130)                 | 40A/99 (120,130)       |
| 40BC (120)               | 40C91/2C/BL (120-125)               | 40B101/2 (120)         |
| 40BC/W (120)             | 40C91/2C/W/BL (120-125)             | 40B101/2/W (120)       |
| 40CAC (120)              | 40B10C/BL (120-125)                 | 40BA9C (120)           |
| 40CAC/F (120)            | —                                   | 40BA9C/F (120)         |
| 40CAM (120)              | 40C11/BL (120)                      | 40BA91/2 (120)         |
| 40CAM/F (120)            | —                                   | 40BA91/2/(120)         |
| 40FM (120)               | 40F (120-125)                       | 40F15 (120)            |
| 40S11N/1/F               | 40S11N/CF                           | 40S11N/IF (120)        |
| 50A21 (12, 30, 34)       | 50A21                               | 50A (12,34)            |
| 50A/RS 24 PK             | 50A/RS-120V                         | —                      |
| 50A/RS/CVG               | 50A/RS/SL                           | 50A/RS/TF (120)        |
| 50/150                   | 50/150A/W                           | 50/150T/SW (120)       |
| 60A 48 PK                | 60A/CVP-130V                        | 60A19/35-130V          |
| 60A/CVG (120)            | 60A/SL (120)                        | 60A/TF (120)           |
| 60BC (120)               | 60B10C/ST/BL (120-125)              | 60B101/2 (120)         |
| 60CAC (120)              | 60B10C/BL (120-125)                 | 60BA9C (120)           |

| GE<br>Description                 | Osram/Sylvania<br>Description       | Philips<br>Description        |
|-----------------------------------|-------------------------------------|-------------------------------|
| ORDER THIS<br>GE LAMP             | IF YOU CURRENTLY USE<br>THESE LAMPS |                               |
| INCANDESCENT LAMPS (CONTINUED)    |                                     |                               |
| 60CAC/F (120)                     | —                                   | 60BA9C/F (120)                |
| 60CAM (120)                       | —                                   | 60BA91/2 (120)                |
| 60A/PL                            | 60A/GRO                             | 60A/AGRO (120)                |
| 60T10F/CD (120)                   | 60T10/CF (120)                      | 60T10/64IF (120)              |
| 65R30/FL/LL                       | —                                   | 65BR30/FL/LL551               |
| 65R30/SP/LL                       | —                                   | 65BR30/SP/LL20/1              |
| 75A 48PK                          | 75A/RP 120V                         | 75A-120V                      |
| 75 A/S (120, 130)                 | 75A/99/XL (120,130)                 | 75A/99 (120,130)              |
| 65R30/PL-1 6PK                    | 65BR30/GRO/RP 120V                  | —                             |
| 75A/CL 24PK                       | 75A/CL/RP 120V                      | 75A/CL-130V                   |
| 75A/RS 12PK                       | 75A/RS/RP 120V                      | 75A/RS/VS 120V                |
| 75ER30                            | 75ER30 120V                         | 75ER30 120V                   |
| 65R30/FL/B                        | 65BR30/BV/RP 120V                   | 75BR30/B 120V                 |
| 65R30/FL/G                        | 65BR30/G/RP 120V                    | 75BR30/G 120V                 |
| 65R30/FL/Y                        | 65BR30/Y/RP 120V                    | 75BR30/Y 120V                 |
| 65R30/FL/PK                       | 65BR30/PK/RP 120V                   | 75BR30/PK 120V                |
| 100A 130V                         | 100A/CVP 130V                       | 100A 130V                     |
| 100A/S 130V                       | 100A/RS/XL                          | 100A/RS/VS 125-130V           |
| 100A/CL 24 PK                     | 100A/CL-120V                        | 100A/CL 120V                  |
| 100A/90WM                         | 100/90/W/ES/4PK                     | 100-90/EW/48PK                |
| 100A/RS                           | 100A/RS/RP 130V                     | 100A/RS/VS 125-130V           |
| 100A23/VS 24PK                    | —                                   | —                             |
| 100A23                            | —                                   | 100A (12)                     |
| 100A21/99 (120, 130)              | 100A/99/XL (120,130)                | 100A/99 (120,130)             |
| 100A21/SBIF (120)                 | —                                   | 100A/SBIF (120)               |
| 100A/RS (120,130)                 | 100A/RS                             | 100A/RS/VS (120,130)          |
| 100A23/VS (120,130)<br>(120, 130) | 100A/VS (120,125,130)               | 100A/RS/VS(2)                 |
| 100A/RS/CVG (120)                 | 100A21/RS/SL                        | 100A/RS/TF (120)              |
| 150A21/99/IF (120,130)            | —                                   | 150A21/RS/VS/BR 120-130V LAMP |
| 200A21/99CL (120-130)             | —                                   | 200A/99CL (130)               |
| 200PS30/CVG (120)                 | 200PS30/SL                          | 200/TF (120)                  |
| 200PS30/RS/CVG (120)              | 200PS30/23/SL                       | 200PS30/RS/TF (120)           |
| 250R40/10                         | 250R40/10                           | 250R40/HR (120)               |
| 300M 120V                         | 300M/CL 120V                        | 300M 120V                     |
| 300M (120, 130V)                  | 300M/CL 130V                        | 300-120V CLR PS30             |
| 300M/IF 130V                      | 300M/IF 130V                        | 300M/PS30IF 130V              |
| 300M/99 (120, 130V)               | 300M/CL/99/XL 130V                  | 300M/99 130V                  |



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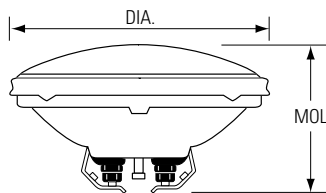
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## BULB IDENTIFICATION



DIA. in.: Diameter of bulb at widest point.

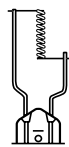
MOL in.: Maximum Overall Length including base or pins.

LCL in.: Distance between the center of the filament and the Light Center Length reference plane.

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

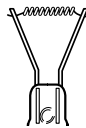
## FILAMENT IDENTIFICATION



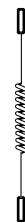
**C-8**  
**CC-8**



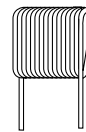
**C-2V**  
**CC-2V**



**C-6**  
**CC-6**



**C-8**  
**CC-8**



**C-6**  
**Oval**

## BASE IDENTIFICATION



**2-Pin**  
**(Round)**  
**GX5.3**



**Can DC**  
**Bay**



**2-Pin**  
**GY6.35**



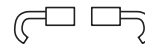
**Recessed**  
**Single**  
**Contact**  
**R7s**



**Screw**  
**Terminals**



**4" Leads**



**1" Ribbon**  
**Leads**



**6" Flex**  
**Leads**



**2-Pin**  
**GU4**



**2-Pin**  
**GU5.3**



**2-Pin**  
**G4**



**Turn & Lock**  
**GU7**



**GU10**



**G8**



**G9**



**2-Pin Pf**



**Min Screw**  
**E10**



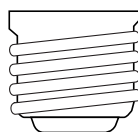
**DC Bay**  
**BA15d**



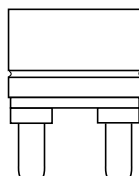
**Min Cand**  
**E11**



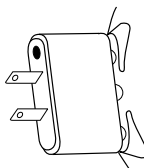
**Med**  
**Screw**  
**E26**



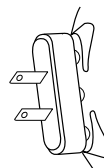
**Mog**  
**Screw**  
**E39**



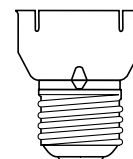
**Mogul**  
**BiPost**  
**G38**



**Ext. Mog**  
**End Pr**  
**GX16d**



**Mog End**  
**PR**  
**GX16d**



**Med**  
**Skirted**  
**E26/50x39**



## INTRODUCTION

Halogen lamps provide a small, white light source with excellent color rendering. Unlike standard incandescent lamps, halogen lamps use a halogen gas which allows the bulbs to burn longer without sacrificing light output.

Compared to incandescent lamps, halogen lamps provide:

- Crisp, white light
- Excellent beam control
- Compact size
- High lumen maintenance
- Long life

Click below to order

**Interlight Specialty Bulbs**  
**1-800-743-0005**  
[www.interlight.biz](http://www.interlight.biz)

## PRODUCT INFORMATION

### PAR38\* VS. STANDARD HALOGEN

#### **Retail HIR™ (PAR38) (pg 2-5)**

- Up to 42% more efficient
- Up to 27% energy savings
- Up to 60% longer life – 4000 hours

#### **HIR XL® UltraLong Life (PAR38) (pg 2-5)**

- Up to 13% energy savings
- Ultra long life – 6000 hours

#### **HIR™ (PAR38) (pgs 2-5 to 2-6)**

- Up to 28% more efficient
- Up to 22% energy savings
- Up to 20% longer life – 3000 hours

#### **Silver Saver™ (PAR38) (pg 2-6)**

- Up to 14% more efficient
- Up to 12% energy savings
- Up to 20% longer life – 3000 hours

#### **Halogen Plus (PAR38) (pgs 2-6 to 2-7)**

- Longer life than standard halogen – 2500 hours
- Wide variety of wattages and beam spreads

#### **Standard Halogen (PAR38) (pg 2-7)**

- Crisp, white light
- Life – 2000 hours

#### **Quartzline® (PAR38) (pg 2-7)**

- High light output for long throws (250 watt)
- Long life – 4200 hours

### COMPACT PAR

#### **Compact HIR™ (PAR30) (pg 2-7)**

- Most efficient PAR30
- Long life – 4000 hours

#### **Long Neck PAR30 Halogen (PAR30L) (pgs 2-7 to 2-8)**

- Energy efficient replacement for R30 lamps
- Ideal for recessed fixtures

#### **Compact PAR Halogen (PAR20/PAR30) (pg 2-8)**

- Small size for “low profile” fixture
- Energy efficient replacement for R20/R30 lamps
- Long life – 3000 hours

#### **Diamond Precise® Electronic (MR16)° (pg 2-9)**

- 58% energy savings vs 50PAR20/50R20
- 2X longer life than 50PAR20/50R20 – 5000 hours
- Precise beam control, 90% lumen maintenance
- 120V Edison base, fully dimmable

### MR

#### **Turn & Lock (TAL) ConstantColor® (MR16) (pg 2-11)**

- User-friendly base... easy to install and remove
- Over 90% maintained light over life
- Virtually no color shift
- Suitable for use in open fixtures

#### **ConstantColor® Precise™ Cover Glass (MR16) (pgs 2-11 to 2-12)**

- Cover glass lens protects bulb from dust and dirt
- Suitable for use in open fixtures

#### **ConstantColor® Precise™ (MR16) (pg 2-12)**

- Precise beam control
- No color shift
- Over 90% maintained light output over life
- Long life – up to 6000 hours (50-watt)

#### **Precise™ Cover Glass IR (MR16) (pg 2-13)**

- Energy saving MR16
- 4000 hour lamp life

#### **Standard MR (MR16/MR11) (pgs 2-13 to 2-14)**

- Small size for “low profile” look
- Crisp, white light

### LINEAR QUARTZ

#### **Linear Quartzline® HIR™ (pgs 2-14 to 2-15)**

- 30%-40% energy cost savings vs. standard quartz lamps
- 95% maintained light output over life
- Cooler operation increases fixture life

\* All comparisons made against standard and Halogen Plus at same/similar lumen output.

° Although face lumens are 53% less, the multi-faceted reflector concentrates lumens on target, diminishing extraneous light.



## HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Halogen lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by wattage. In each of these groups, lamps are listed alphabetically by bulb shape.

|                                                                                                                                                                                                                                                                                  |                  |                                                                                                                                                                                  |             |                                                                    |                   |                                                             |             |                                                                                                                        |            |                                                                                           |                       |                                                                                                     |             |                                                                                                                                                                                     |                               |                                                                                                                                                                                     |  |                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------|-------------------|-------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------|--|
| <b>Filament Design:</b><br>Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement. |                  | <b>Energy Used - Nominal Watts:</b><br>Energy Used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000. |             | <b>Case Quantity:</b><br>Number of product units packed in a case. |                   | <b>MOL in.:</b><br>Maximum Overall Length in inches.        |             | <b>LCL in.:</b><br>Distance between the center of the filament and the Light Center Length reference plane, in inches. |            | <b>Life - Hours:</b><br>Life (as defined by FTC Lamp Label Rules) is rated life in hours. |                       | <b>Light Output - Lumens:</b><br>Light output (as defined by FTC Lamp Label Rules) is rated lumens. |             | <b>Reference Color Temperature Kelvins (K):</b><br>"Warmth" or "Coolness" of the lamp, measured in Kelvins (K). The higher the temperature, the cooler the appearance of the light. |                               | <b>Approximate CBCP (Center Beam Candlepower):</b><br>For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam. |  | <b>Additional Information</b><br>Typical application and/or other important information. |  |
| <b>Bulb Shape:</b><br>Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).                                                                                                                                                        |                  | <b>Order Code:</b><br>It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.                                        |             | <b>Volts:</b><br>Lamp data is based on operation at rated voltage. |                   | <b>Lamp Description:</b><br>The lamp's identification code. |             |                                                                                                                        |            |                                                                                           |                       |                                                                                                     |             |                                                                                                                                                                                     |                               |                                                                                                                                                                                     |  |                                                                                          |  |
| <b>Base:</b><br>The type of base.                                                                                                                                                                                                                                                |                  |                                                                                                                                                                                  |             |                                                                    |                   |                                                             |             |                                                                                                                        |            |                                                                                           |                       |                                                                                                     |             |                                                                                                                                                                                     |                               |                                                                                                                                                                                     |  |                                                                                          |  |
| <b>Bulb Shape</b>                                                                                                                                                                                                                                                                | <b>Base Type</b> | <b>Order Watts</b>                                                                                                                                                               | <b>Code</b> | <b>Description</b>                                                 | <b>Case Volts</b> | <b>Filament Qty.</b>                                        | <b>Type</b> | <b>MOL</b>                                                                                                             | <b>LCL</b> | <b>Rated Life (hrs)</b>                                                                   | <b>Lumens Initial</b> | <b>Initial Color Temp.</b>                                                                          | <b>CBCP</b> | <b>Footnotes</b>                                                                                                                                                                    | <b>Additional Information</b> |                                                                                                                                                                                     |  |                                                                                          |  |
| <b>HALOGEN PAR38 LAMPS</b>                                                                                                                                                                                                                                                       |                  |                                                                                                                                                                                  |             |                                                                    |                   |                                                             |             |                                                                                                                        |            |                                                                                           |                       |                                                                                                     |             |                                                                                                                                                                                     |                               |                                                                                                                                                                                     |  |                                                                                          |  |
| <b>HIR™</b>                                                                                                                                                                                                                                                                      |                  |                                                                                                                                                                                  |             |                                                                    |                   |                                                             |             |                                                                                                                        |            |                                                                                           |                       |                                                                                                     |             |                                                                                                                                                                                     |                               |                                                                                                                                                                                     |  |                                                                                          |  |
| PAR38                                                                                                                                                                                                                                                                            | Med Skirt        | 50                                                                                                                                                                               | 12396       | 50PAR/HIR/SP9                                                      | 120               | 12                                                          | CC-8        | 5.31                                                                                                                   |            | 3000                                                                                      | 800                   | 2810                                                                                                | 16000       | 1a, 2a, 4f, 9a, 10c                                                                                                                                                                 | Spotlight                     |                                                                                                                                                                                     |  |                                                                                          |  |

## 50 PAR / HIR / SP 9

Identifies the lamp's wattage.

Identifies the lamp shape and the bulb diameter in eighths of an inch.

Identifies the lamp type.

Identifies beam angle, code may also include packaging information.

Identifies as Spotlight.

### WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 2-2.
4. Find your lamp in the table containing the bulb shape, size and base, which are all listed by wattage.

### HALOGEN BRAND NAME CROSS-REFERENCE

| GE                               | OSRAM/SYLVANIA               | PHILIPS            |
|----------------------------------|------------------------------|--------------------|
| Retail HIR™                      | —                            | —                  |
| HIR/XL™ PAR                      | —                            | —                  |
| HIR™ PAR                         | Capsylite® PAR IR™           | Masterline™ IRC    |
| Silver Saver™                    | —                            | —                  |
| Edison™                          | —                            | —                  |
| Halogen Plus PAR                 | Capsylite® PAR               | Masterline™ 2500   |
| Standard Halogen PAR             | —                            | Masterline™ 2000   |
| Compact PAR                      | Capsylite® PAR               | Masterline™ PAR    |
| Diamond Precise®                 | —                            | —                  |
| Turn & Lock (TAL) ConstantColor® | —                            | —                  |
| ConstantColor® Precise™          | Tru-Aim Titan®               | Continuum Color®   |
| Precise™ IR                      | Tru-Aim® IR™                 | Masterline™ ES IRC |
| Standard MR16                    | Tru-Aim®                     | Continuum®         |
| Halogen A-Line                   | Capsylite® A-Line (Midbreak) | Halogena®          |

ATTENTION: This brand-name cross reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, and/or other auxiliary equipment.



| Bulb Shape                                                                         | Base Type       | Watts            | Order Code | Description      | Case Volts | Filament Qty. | Type | MOL  | LCL  | Rated Life (hrs) | Lumens Initial | Initial Color Temp.   | CBCP                | Footnotes             | Additional Information           |
|------------------------------------------------------------------------------------|-----------------|------------------|------------|------------------|------------|---------------|------|------|------|------------------|----------------|-----------------------|---------------------|-----------------------|----------------------------------|
| HALOGEN PAR38 LAMPS                                                                |                 |                  |            |                  |            |               |      |      |      |                  |                |                       |                     |                       |                                  |
| RETAIL HIR™ & SILV-IR                                                              |                 |                  |            |                  |            |               |      |      |      |                  |                |                       |                     |                       |                                  |
|    | PAR38 Med Skirt | 45               | 16344      | 45PAR/HIR/R/SP10 | 120        | 12            |      | 5.31 |      | 4000             | 800            | 2750                  | 14000               | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight                        |
|                                                                                    |                 |                  | 16345      | 45PAR/HIR/R/FL25 | 120        | 12            |      | 5.31 |      | 4000             | 800            | 2750                  | 3400                | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight                       |
|                                                                                    |                 | 50               | 46168      | 50PAR/HIR/S/SP10 | 120        | 12            |      | 5.31 |      | 4000             | 800            | 2750                  | 14000               | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight - Heavy Duty Filament  |
|                                                                                    |                 |                  | 46167      | 50PAR/HIR/S/FL25 | 120        | 12            |      | 5.31 |      | 4000             | 800            | 2750                  | 3400                | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight - Heavy Duty Filament |
|                                                                                    |                 | 55               | 16346      | 55PAR/HIR/R/SP10 | 120        | 12            |      | 5.31 |      | 4000             | 1050           | 2800                  | 17000               | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight                        |
|                                                                                    |                 |                  | 16347      | 55PAR/HIR/R/FL25 | 120        | 12            |      | 5.31 |      | 4000             | 1050           | 2800                  | 4000                | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight                       |
|                                                                                    |                 | 60               | 46165      | 60PAR/HIR/S/SP10 | 120        | 12            |      | 5.31 |      | 4000             | 1050           | 2800                  | 17000               | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight - Heavy Duty Filament  |
|                                                                                    |                 |                  | 46166      | 60PAR/HIR/S/FL30 | 120        | 12            |      | 5.31 |      | 4000             | 1050           | 2800                  | 2800                | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight - Heavy Duty Filament |
|                                                                                    |                 | 90               | 16348      | 90PAR/HIR/R/SP10 | 120        | 12            |      | 5.31 |      | 4000             | 2030           | 2850                  | 30000               | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight                        |
|                                                                                    |                 |                  | 16349      | 90PAR/HIR/R/FL25 | 120        | 12            |      | 5.31 |      | 4000             | 2030           | 2850                  | 7000                | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight                       |
| HIR XL® (ULTRALONG LIFE) PAR38                                                     |                 |                  |            |                  |            |               |      |      |      |                  |                |                       |                     |                       |                                  |
|   | PAR38 Med Skirt | 45               | 40793      | 45PAR/HIR/SP12XL | 120        | 6             | CC-8 | 5.31 |      | 6000             | 600            | 2680                  | 7000                | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight                        |
|                                                                                    |                 |                  | 40790      | 45PAR/HIR/FL40XL | 120        | 6             | CC-8 | 5.31 |      | 6000             | 600            | 2680                  | 1300                | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight                       |
|                                                                                    |                 | 55               | 40794      | 55PAR/HIR/SP12XL | 120        | 6             | CC-8 | 5.31 |      | 6000             | 800            | 2680                  | 9000                | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight                        |
|                                                                                    |                 |                  | 40792      | 55PAR/HIR/FL40XL | 120        | 6             | CC-8 | 5.31 |      | 6000             | 800            | 2680                  | 2000                | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight                       |
|                                                                                    |                 | 90               | 40795      | 90PAR/HIR/SP12XL | 120        | 6             | CC-8 | 5.31 |      | 6000             | 1470           | 2800                  | 17000               | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight                        |
|                                                                                    |                 |                  | 40791      | 90PAR/HIR/FL40XL | 120        | 6             | CC-8 | 5.31 |      | 6000             | 1470           | 2800                  | 2800                | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight                       |
| HIR™                                                                               |                 |                  |            |                  |            |               |      |      |      |                  |                |                       |                     |                       |                                  |
|  | PAR38 Med Skirt | 50               | 40937      | 50PAR/HIR/SP6    | 120        | 12            | CC-8 | 5.31 |      | 3000             | 800            | 2810                  | 20000               | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight                        |
|                                                                                    |                 |                  | 12396      | 50PAR/HIR/SP9    | 120        | 12            | CC-8 | 5.31 |      | 3000             | 800            | 2810                  | 16000               | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight                        |
|                                                                                    |                 |                  | 12397      | 50PAR/HIR/FL25   | 120        | 12            | CC-8 | 5.31 |      | 3000             | 800            | 2810                  | 3400                | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight                       |
|                                                                                    |                 | 50               | 22850      | 50PAR/HIR/FL25   | 130        | 12            | CC-8 | 5.31 |      | 3000             | 800            | 2810                  | 3400                | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight                       |
|                                                                                    |                 | 46               |            |                  | 120        |               |      |      |      | 6000             | 600            |                       |                     |                       |                                  |
|                                                                                    |                 | 60               | 11881      | 60PAR/HIR/SP10   | 120        | 6             | CC-8 | 5.31 |      | 3000             | 1050           | 2850                  | 17000               | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight                        |
|                                                                                    |                 |                  | 18627      | 60PAR/HIR/SP10   | 120        | 12            | CC-8 | 5.31 |      | 3000             | 1050           | 2850                  | 17000               | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight                        |
|                                                                                    |                 | 60               | 18629      | 60PAR/HIR/SP10   | 130        | 12            | CC-8 | 5.31 |      | 3000             | 1050           | 2850                  | 17000               | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight                        |
|                                                                                    |                 | 54               |            |                  | 120        |               |      |      |      | 6000             | 800            |                       |                     |                       |                                  |
|                                                                                    |                 | 60               | 11878      | 60PAR/HIR/FL30   | 120        | 6             | CC-8 | 5.31 |      | 3000             | 1050           | 2850                  | 2800                | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight                       |
|                                                                                    |                 |                  | 18626      | 60PAR/HIR/FL30   | 120        | 12            | CC-8 | 5.31 |      | 3000             | 1050           | 2850                  | 2800                | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight                       |
|                                                                                    |                 | 60               | 18628      | 60PAR/HIR/FL30   | 130        | 12            | CC-8 | 5.31 |      | 3000             | 1050           | 2850                  | 2800                | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight                       |
|                                                                                    |                 | 54               |            |                  | 120        |               |      |      |      | 6000             | 800            |                       |                     |                       |                                  |
|                                                                                    |                 | 60               | 10467      | 60PAR/HIR/FL40   | 120        | 12            | CC-8 | 5.31 |      | 3000             | 1050           | 2850                  | 1700                | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight                       |
|                                                                                    |                 |                  | 20947      | 60PAR/HIR/WFL    | 120        | 12            | CC-8 | 5.31 |      | 3000             | 1050           | 2850                  |                     | ➤ 1a, 2a, 4f, 9a, 10c | Wide Floodlight                  |
|                                                                                    |                 | 60               | 20948      | 60PAR/HIR/WFL    | 130        | 12            | CC-8 | 5.31 |      | 3000             | 1050           | 2850                  |                     | ➤ 1a, 2a, 4f, 9a, 10c | Wide Floodlight                  |
|                                                                                    |                 | 54               |            |                  | 120        |               |      |      |      | 6000             | 800            |                       |                     |                       |                                  |
|                                                                                    |                 | 70               | 46367      | 70PAR/HIR/SP10   | 120        | 12            | CC-8 | 5.31 |      | 3000             | 1260           | 2900                  | 19000               | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight                        |
|                                                                                    |                 | 70               | 46369      | 70PAR/HIR/SP10   | 130        | 12            | CC-8 | 5.31 |      | 3000             | 1260           | 2900                  | 19000               | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight                        |
|                                                                                    |                 | 64               |            |                  | 120        |               |      |      |      | 6000             | 950            |                       |                     |                       |                                  |
| 70                                                                                 | 46368           | 70PAR/HIR/FL25   | 120        | 12               | CC-8       | 5.31          |      | 3000 | 1260 | 2900             | 4700           | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight          |                       |                                  |
| 70                                                                                 | 46370           | 70PAR/HIR/FL25   | 130        | 12               | CC-8       | 5.31          |      | 3000 | 1260 | 2900             | 4700           | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight          |                       |                                  |
| 64                                                                                 |                 |                  | 120        |                  |            |               |      | 6000 | 950  |                  |                |                       |                     |                       |                                  |
| 70                                                                                 | 16239           | 70PAR/HIR/FL/CON | 120        | 6                | CC-8       | 5.31          |      | 3000 | 1260 | 2900             | 4700           |                       | 1a, 2a, 4f, 9a, 10c | Floodlight            |                                  |
| 80                                                                                 | 27216           | 80PAR/HIR/SP10   | 120        | 12               | CC-8       | 5.31          |      | 3000 | 1500 | 2900             | 22000          | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight           |                       |                                  |
|                                                                                    | 27217           | 80PAR/HIR/SP12   | 120        | 12               | CC-8       | 5.31          |      | 3000 | 1500 | 2900             | 17500          | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight           |                       |                                  |
|                                                                                    | 27218           | 80PAR/HIR/FL25   | 120        | 12               | CC-8       | 5.31          |      | 3000 | 1500 | 2900             | 5000           | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight          |                       |                                  |



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| Bulb Shape                                                                         | Base Type       | Order Watts | Code  | Description      | Case Volts | Filament Qty. | Type | MOL  | LCL  | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP  | Footnotes             | Additional Information |
|------------------------------------------------------------------------------------|-----------------|-------------|-------|------------------|------------|---------------|------|------|------|------------------|----------------|---------------------|-------|-----------------------|------------------------|
| HALOGEN PAR38 LAMPS (CONTINUED)                                                    |                 |             |       |                  |            |               |      |      |      |                  |                |                     |       |                       |                        |
| HIR™ (CONTINUED)                                                                   |                 |             |       |                  |            |               |      |      |      |                  |                |                     |       |                       |                        |
|    | PAR38 Med Skirt | 100         | 18635 | 100PAR/HIR/SP10  | 120        | 12            | CC-8 | 5.31 |      | 3000             | 2030           | 2900                | 30000 | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 |             | 11885 | 100PAR/HIR/SP10  | 120        | 6             | CC-8 | 5.31 |      | 3000             | 2030           | 2900                | 30000 | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 | 100         | 18636 | 100PAR/HIR/SP10  | 130        | 12            | CC-8 | 5.31 |      | 3000             | 2030           | 2900                | 30000 | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 | 88          |       |                  | 120        |               |      |      |      | 6000             | 1470           |                     |       |                       |                        |
|                                                                                    |                 | 100         | 11883 | 100PAR/HIR/FL25  | 120        | 6             | CC-8 | 5.31 |      | 3000             | 2030           | 2900                | 7000  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 |             | 18631 | 100PAR/HIR/FL25  | 120        | 12            | CC-8 | 5.31 |      | 3000             | 2030           | 2900                | 7000  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 | 100         | 18633 | 100PAR/HIR/FL25  | 130        | 12            | CC-8 | 5.31 |      | 3000             | 2030           | 2900                | 7000  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 | 88          |       |                  | 120        |               |      |      |      | 6000             | 1470           |                     |       |                       |                        |
|                                                                                    |                 | 100         | 10473 | 100PAR/HIR/FL40  | 120        | 12            | CC-8 | 5.31 |      | 3000             | 2030           | 2900                | 3400  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
| SILVER SAVER™                                                                      |                 |             |       |                  |            |               |      |      |      |                  |                |                     |       |                       |                        |
|    | PAR38 Med Skirt | 53          | 16338 | 53PAR/H/SS/SP10  | 120        | 12            | CC-8 | 5.31 |      | 3000             | 800            | 2800                | 14000 | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 |             | 16339 | 53PAR/H/SS/FL25  | 120        | 12            | CC-8 | 5.31 |      | 3000             | 800            | 2800                | 2900  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 | 53          | 27989 | 53PAR/HSS/SP10   | 130        | 12            | CC-8 | 5.31 |      | 3000             | 800            | 2800                | 14000 | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 | 47          |       |                  | 120        |               |      |      |      | 6000             | 608            |                     |       |                       |                        |
|                                                                                    |                 | 53          | 27991 | 53PAR/HSS/FL25   | 130        | 12            | CC-8 | 5.31 |      | 3000             | 800            | 2800                | 2900  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 | 47          |       |                  | 120        |               |      |      |      | 6000             | 608            |                     |       |                       |                        |
|                                                                                    |                 | 66          | 16340 | 66PAR/H/SS/SP10  | 120        | 12            | CC-8 | 5.31 |      | 3000             | 1050           | 2850                | 18000 | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 |             | 16341 | 66PAR/H/SS/FL25  | 120        | 12            | CC-8 | 5.31 |      | 3000             | 1050           | 2850                | 4000  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 | 66          | 28263 | 66PAR/HSS/SP10   | 130        | 12            | CC-8 | 5.31 |      | 3000             | 1050           | 2850                | 18000 | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 | 58          |       |                  | 120        |               |      |      |      | 6000             | 800            |                     |       |                       |                        |
|                                                                                    |                 | 66          | 28265 | 66PAR/HSS/FL25   | 130        | 12            | CC-8 | 5.31 |      | 3000             | 1050           | 2850                | 4000  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 | 58          |       |                  | 120        |               |      |      |      | 6000             | 800            |                     |       |                       |                        |
|  | PAR38 Med Skirt | 79          | 16342 | 79PAR/H/SS/SP10  | 120        | 12            | CC-8 | 5.31 |      | 3000             | 1310           | 2850                | 20000 | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 |             | 16343 | 79PAR/H/SS/FL25  | 120        | 12            | CC-8 | 5.31 |      | 3000             | 1310           | 2850                | 4700  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 | 79          | 28267 | 79PAR/HHS/SP10   | 130        | 12            | CC-8 | 5.31 |      | 3000             | 1310           | 2850                | 20000 | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 | 70          |       |                  | 120        |               |      |      |      | 6000             | 1000           |                     |       |                       |                        |
|                                                                                    |                 | 79          | 28268 | 79PAR/HSS/FL25   | 130        | 12            | CC-8 | 5.31 |      | 3000             | 1310           | 2850                | 4700  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 | 70          |       |                  | 120        |               |      |      |      | 6000             | 1000           |                     |       |                       |                        |
| LONG LIFE PAR38                                                                    |                 |             |       |                  |            |               |      |      |      |                  |                |                     |       |                       |                        |
|  | PAR38 Med Skirt | 45          | 16354 | 45PAR/SP10 XL-EG | 120        | 6             | CC-8 | 5.31 |      | 6000             | 520            | 2700                | 8000  | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 |             | 16355 | 45PAR/FL25 XL-EG | 120        | 6             | CC-8 | 5.31 |      | 6000             | 520            | 2700                | 2000  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 | 90          | 16357 | 90PAR/SP10 XL-EG | 120        | 6             | CC-8 | 5.31 |      | 6000             | 1310           | 2800                | 20000 | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 |             | 16358 | 90PAR/FL25 XL-EG | 120        | 6             | CC-8 | 5.31 |      | 6000             | 1310           | 2800                | 4700  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 | 45          | 20757 | 45PAR/SP10XL-OD  | 120        | 6             | CC-8 | 5.31 |      | 6000             | 520            | 2700                | 8000  | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 |             | 20758 | 45PAR/FL25XL-OD  | 120        | 6             | CC-8 | 5.31 |      | 6000             | 520            | 2700                | 2000  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 | 90          | 20759 | 90PAR/SP10XL-OD  | 120        | 6             | CC-8 | 5.31 |      | 6000             | 1310           | 2800                | 20000 | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 |             | 20763 | 90PAR/FL25XL-OD  | 120        | 6             | CC-8 | 5.31 |      | 6000             | 1310           | 2800                | 4700  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
| HALOGEN PLUS                                                                       |                 |             |       |                  |            |               |      |      |      |                  |                |                     |       |                       |                        |
|  | PAR38 Med Skirt | 45          | 17470 | 45PAR/H/SP10     | 120        | 6             | CC-8 | 5.31 |      | 2500             | 540            | 2750                | 8000  | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 | 45          | 16229 | 45PAR/H/SP10     | 130        | 12            | CC-8 | 5.31 |      | 2500             | 540            | 2750                | 8000  | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 | 40          |       |                  | 120        |               |      |      |      | 5000             | 410            |                     |       |                       |                        |
|                                                                                    |                 | 45          | 17471 | 45PAR/H/FL25 6PK | 120        | 6             | CC-8 | 5.31 |      | 2500             | 540            | 2750                | 2000  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 | 45          | 16231 | 45PAR/H/FL25     | 130        | 12            | CC-8 | 5.31 |      | 2500             | 540            | 2750                | 2000  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 | 40          |       |                  | 120        |               |      |      |      | 5000             | 410            |                     |       |                       |                        |
|                                                                                    |                 | 60          | 25266 | 60PAR/H/SP10     | 120        | 12            | CC-8 | 5.31 |      | 3000             | 800            | 2800                | 13000 | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 | 60          | 25270 | 60PAR/H/SP10     | 130        | 12            | CC-8 | 5.31 |      | 3000             | 800            | 2800                | 13000 | ➤ 1a, 2a, 4f, 9a, 10c | Spotlight              |
|                                                                                    |                 | 54          |       |                  | 120        |               |      |      | 6000 | 608              |                |                     |       |                       |                        |
|                                                                                    |                 | 60          | 25269 | 60PAR/H/FL25     | 120        | 12            | CC-8 | 5.31 |      | 3000             | 800            | 2800                | 3200  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 | 60          | 25271 | 60PAR/H/FL25     | 130        | 12            | CC-8 | 5.31 |      | 3000             | 800            | 2800                | 3200  | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight             |
|                                                                                    |                 | 54          |       |                  | 120        |               |      |      |      | 6000             | 608            |                     |       |                       |                        |

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| Bulb Shape                                                                                                                                                              | Base Type       | Order Watts                                                                        | Code       | Description       | Case Volts      | Filament Qty.   | Type | MOL  | LCL  | Rated Life (hrs) | Lumens Initial | Initial Color Temp.   | CBCP                  | Footnotes                             | Additional Information |                           |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------|------------|-------------------|-----------------|-----------------|------|------|------|------------------|----------------|-----------------------|-----------------------|---------------------------------------|------------------------|---------------------------|-----------------|
| HALOGEN PAR38 LAMPS (CONTINUED)                                                                                                                                         |                 |                                                                                    |            |                   |                 |                 |      |      |      |                  |                |                       |                       |                                       |                        |                           |                 |
| HALOGEN PLUS (CONTINUED)                                                                                                                                                |                 |                                                                                    |            |                   |                 |                 |      |      |      |                  |                |                       |                       |                                       |                        |                           |                 |
|                                                                                         | PAR38 Med Skirt | 75                                                                                 | 14751      | 75PAR/H/SP9-6PK   | 120             | 6               | CC-8 | 5.31 |      | 2500             | 1050           | 2850                  | 18000                 | ➤ 1a, 2a, 4f, 9a, 10c                 | Spotlight              |                           |                 |
|                                                                                                                                                                         |                 |                                                                                    | 14748      | 75PAR/H/FL25-6PK  | 120             | 6               | CC-8 | 5.31 |      | 2500             | 1050           | 2850                  | 4000                  | ➤ 1a, 2a, 4f, 9a, 10c                 | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 |                                                                                    | 81864      | 75PAR38HFL25/RVL  | 120             | 6               | CC-8 | 5.31 |      | 2500             | 950            |                       |                       | ➤ 1a, 2a, 4f, 9a, 10c                 | Reveal®, Floodlight    |                           |                 |
|                                                                                                                                                                         |                 |                                                                                    | 26564      | 75PAR/H/FL-TWIN   | 120             | 3               | CC-8 | 5.31 |      | 2500             | 1050           | 2850                  | 4000                  | ➤ 1a, 2a, 4f, 9a, 10c                 | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 | 75                                                                                 | 21389      | 75PAR/H/FL25      | 130             | 12              | CC-8 | 5.31 |      | 2500             | 1050           | 2850                  | 4000                  | ➤ 1a, 2a, 4f, 9a, 10c                 | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 | 66                                                                                 |            |                   | 120             |                 |      |      |      | 5000             | 800            |                       |                       |                                       |                        |                           |                 |
|                                                                                                                                                                         |                 | 90                                                                                 | 17450      | 90PAR/H/SP10-6PK  | 120             | 6               | CC-8 | 5.31 |      | 2500             | 1310           | 2900                  | 20000                 | ➤ 1a, 2a, 4f, 9a, 10c                 | Spotlight              |                           |                 |
|                                                                                                                                                                         |                 | 90                                                                                 | 13311      | 90PAR/H/SP10      | 130             | 12              | CC-8 | 5.31 |      | 2500             | 1310           | 2900                  | 20000                 | ➤ 1a, 2a, 4f, 9a, 10c                 | Spotlight              |                           |                 |
|                                                                                                                                                                         |                 | 79                                                                                 |            |                   | 120             |                 |      |      |      | 5000             | 1000           |                       |                       |                                       |                        |                           |                 |
|                                                                                                                                                                         |                 | 90                                                                                 | 17451      | 90PAR/H/FL25-6PK  | 120             | 6               | CC-8 | 5.31 |      | 2500             | 1310           | 2900                  | 4700                  | ➤ 1a, 2a, 4f, 9a, 10c                 | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 | 90                                                                                 | 13308      | 90PAR/H/FL25      | 130             | 12              | CC-8 | 5.31 |      | 2500             | 1310           | 2900                  | 4700                  | ➤ 1a, 2a, 4f, 9a, 10c                 | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 | 79                                                                                 |            |                   | 120             |                 |      |      |      | 5000             | 1000           |                       |                       |                                       |                        |                           |                 |
| 90                                                                                                                                                                      | 22742           | 90PAR/H/FL-TWIN                                                                    | 120        | 3                 | CC-8            | 5.31            |      | 2500 | 1310 | 2900             | 4700           | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight            |                                       |                        |                           |                 |
|                                                                                                                                                                         | 25727           | 90PAR/H/WFL-120V                                                                   | 120        | 12                | CC-8            | 5.31            |      | 2500 | 1310 | 2900             |                |                       | ➤ 1a, 2a, 4f, 9a, 10c | Wide Floodlight                       |                        |                           |                 |
| 120                                                                                                                                                                     | 41632           | 120PAR/H/SP9                                                                       | 120        | 6                 | CC-8            | 5.31            |      | 2500 | 1900 | 2950             | 18000          |                       | ➤ 1a, 2a, 4f, 9a, 10c | Narrow Spot                           |                        |                           |                 |
| 120                                                                                                                                                                     | 41631           | 120PAR/H/FL30                                                                      | 120        | 6                 | CC-8            | 5.31            |      | 2500 | 1900 | 2950             | 4000           |                       | ➤ 1a, 2a, 4f, 9a, 10c | Floodlight                            |                        |                           |                 |
| STANDARD HALOGEN                                                                                                                                                        |                 |                                                                                    |            |                   |                 |                 |      |      |      |                  |                |                       |                       |                                       |                        |                           |                 |
| <br> | PAR38 Med Skirt | 50                                                                                 | 17980      | 50PAR/H/SP10-6PK  | 120             | 6               | CC-8 | 5.31 |      | 2000             | 600            | 2750                  | 9500                  | ➤ 1a, 2a, 4f, 9a, 10c                 | Spotlight              |                           |                 |
|                                                                                                                                                                         |                 |                                                                                    | 17979      | 50PAR/H/FL25-6PK  | 120             | 6               | CC-8 | 5.31 |      | 2000             | 600            | 2750                  | 2200                  | ➤ 1a, 2a, 4f, 9a, 10c                 | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 |                                                                                    | 25948      | 50PAR/H/FL-TWIN   | 120             | 3               | CC-8 | 5.31 |      | 2000             | 600            | 2750                  | 2200                  | ➤ 1a, 2a, 4f, 9a, 10c                 | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 | 50                                                                                 | 17926      | 50PAR/H/FL        | 130             | 12              | CC-8 | 5.31 |      | 2000             | 600            | 2750                  | 2200                  | ➤ 1a, 2a, 4f, 9a, 10c                 | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 | 46                                                                                 |            |                   | 120             |                 |      |      |      | 4000             | 450            |                       |                       |                                       |                        |                           |                 |
|                                                                                                                                                                         |                 | 100                                                                                | 17992      | 100PAR/H/SP10     | 120             | 6               | CC-8 | 5.31 |      | 2000             | 1500           | 2900                  | 22000                 | ➤ 1a, 2a, 4f, 9a, 10c                 | Spotlight              |                           |                 |
|                                                                                                                                                                         |                 |                                                                                    | 17986      | 100PAR/H/FL25     | 120             | 6               | CC-8 | 5.31 |      | 2000             | 1500           | 2900                  | 5000                  | ➤ 1a, 2a, 4f, 9a, 10c                 | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 |                                                                                    | 25679      | 100PAR/H/FL-TWIN  | 120             | 3               | CC-8 | 5.31 |      | 2000             | 1500           | 2900                  | 5000                  | ➤ 1a, 2a, 4f, 9a, 10c                 | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 | 100                                                                                | 17947      | 100PAR/H/FL25     | 130             | 12              | CC-8 | 5.31 |      | 2000             | 1500           | 2900                  | 5000                  | ➤ 1a, 2a, 4f, 9a, 10c                 | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 | 88                                                                                 |            |                   | 120             |                 |      |      |      | 4000             | 1150           |                       |                       |                                       |                        |                           |                 |
|                                                                                                                                                                         |                 | COOL BEAM PAR38                                                                    |            |                   |                 |                 |      |      |      |                  |                |                       |                       |                                       |                        |                           |                 |
|                                                                                                                                                                         |                 | PAR38 Med Skirt                                                                    | 90         | 17691             | 90PAR/CB/H/FL25 | 120             | 12   | CC-8 | 5.31 |                  |                | 2500                  | 1260                  | 2870                                  | 4100                   | ➤ 1a, 2a, 2c, 4f, 9a, 10c | Cool Beam Flood |
| QUARTZLINE®                                                                                                                                                             |                 |                                                                                    |            |                   |                 |                 |      |      |      |                  |                |                       |                       |                                       |                        |                           |                 |
|                                                                                       | PAR38 Med Skirt | 250                                                                                | 23719      | Q250PAR/SP10      | 120             | 12              | CC-8 | 5.31 |      | 4200             | 3600           | 2880                  | 40000                 | ➤ 1a, 2a, 2j, 4b, 4f, 4g, 4h, 9a, 10c | Spotlight              |                           |                 |
|                                                                                                                                                                         |                 |                                                                                    | 23718      | Q250PAR/FL30      | 120             | 12              | CC-8 | 5.31 |      | 4200             | 3600           | 2880                  | 9000                  | ➤ 1a, 2a, 2j, 4b, 4f, 4g, 4h, 9a, 10c | Floodlight             |                           |                 |
| HALOGEN COMPACT PAR LAMPS                                                                                                                                               |                 |                                                                                    |            |                   |                 |                 |      |      |      |                  |                |                       |                       |                                       |                        |                           |                 |
| COMPACT HIR™                                                                                                                                                            |                 |                                                                                    |            |                   |                 |                 |      |      |      |                  |                |                       |                       |                                       |                        |                           |                 |
|                                                                                      | PAR30 Med       | 45                                                                                 | 41545      | 45PAR30HIR/SP9XL  | 120             | 15              | CC-8 | 3.62 |      | 6000             | 620            | 2680                  | 9750                  | ➤ 1a, 2a, 4f, 4h, 9a, 10c             | Spotlight              |                           |                 |
|                                                                                                                                                                         |                 |                                                                                    | 41547      | 45PAR30HIR/FL25XL | 120             | 15              | CC-8 | 3.62 |      | 6000             | 620            | 2680                  | 2025                  | ➤ 1a, 2a, 4f, 4h, 9a, 10c             | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 |                                                                                    | 41550      | 45PAR30HIR/FL35XL | 120             | 15              | CC-8 | 3.62 |      | 6000             | 620            | 2680                  | 1125                  | ➤ 1a, 2a, 4f, 4h, 9a, 10c             | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 | 50                                                                                 | 19902      | 50PAR30/HIR/SP9   | 120             | 15              | CC-8 | 3.62 |      | 4000             | 825            | 2810                  | 15000                 | ➤ 1a, 2a, 4f, 4h, 9a, 10c             | Spotlight              |                           |                 |
|                                                                                                                                                                         |                 |                                                                                    | 19901      | 50PAR30HIR/FL25   | 120             | 15              | CC-8 | 3.62 |      | 4000             | 825            | 2810                  | 3200                  | ➤ 1a, 2a, 4f, 4h, 9a, 10c             | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 | 50                                                                                 | 21533      | 50PAR30HIR/FL25   | 130             | 15              | CC-8 | 3.62 |      | 3000             | 825            | 2810                  | 3200                  | ➤ 1a, 2a, 4f, 4h, 9a, 10c             | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 | 46                                                                                 |            |                   | 120             |                 |      |      |      | 6000             | 620            |                       |                       |                                       |                        |                           |                 |
|                                                                                                                                                                         |                 | 50                                                                                 | 19900      | 50PAR30/HIR/FL35  | 120             | 15              | CC-8 | 3.62 |      | 4000             | 825            | 2810                  | 1800                  | ➤ 1a, 2a, 4f, 4h, 9a, 10c             | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 | 50                                                                                 | 19903      | 50PAR30/HIR/FL35  | 130             | 15              | CC-8 | 3.62 |      | 3000             | 825            | 2810                  | 1800                  | ➤ 1a, 2a, 4f, 4h, 9a, 10c             | Floodlight             |                           |                 |
|                                                                                                                                                                         |                 | 46                                                                                 |            |                   | 120             |                 |      |      |      | 6000             | 620            |                       |                       |                                       |                        |                           |                 |
|                                                                                                                                                                         |                 | COMPACT PAR30 LONG NECK                                                            |            |                   |                 |                 |      |      |      |                  |                |                       |                       |                                       |                        |                           |                 |
|                                                                                                                                                                         |                 |  | PAR30L Med | 50                | 14940           | 50PAR30L/H/SP10 | 130  | 6    | CC-8 | 4.75             |                | 3000                  | 580                   | 2800                                  | 7500                   | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight       |
| 46                                                                                                                                                                      |                 |                                                                                    |            |                   | 120             |                 |      |      |      | 6000             | 460            |                       |                       |                                       |                        |                           |                 |
|                                                                                                                                                                         |                 | 50                                                                                 | 11117      | 50PAR30L/H/SP10   | 130             | 15              | CC-8 | 4.75 |      | 3000             | 580            | 2800                  | 7500                  | ➤ 1a, 2a, 4f, 4h, 9a, 10c             | Spotlight              |                           |                 |
|                                                                                                                                                                         |                 | 46                                                                                 |            |                   | 120             |                 |      |      |      | 6000             | 460            |                       |                       |                                       |                        |                           |                 |



| Bulb Shape                                                                         | Base Type  | Order Watts       | Code           | Description      | Case Volts | Filament Qty. | Type | MOL  | LCL  | Rated Life (hrs) | Lumens Initial | Initial Color Temp.       | CBCP                      | Footnotes                 | Additional Information      |
|------------------------------------------------------------------------------------|------------|-------------------|----------------|------------------|------------|---------------|------|------|------|------------------|----------------|---------------------------|---------------------------|---------------------------|-----------------------------|
| HALOGEN COMPACT PAR LAMPS (CONTINUED)                                              |            |                   |                |                  |            |               |      |      |      |                  |                |                           |                           |                           |                             |
| COMPACT PAR30 LONG NECK (CONTINUED)                                                |            |                   |                |                  |            |               |      |      |      |                  |                |                           |                           |                           |                             |
|    | PAR30L Med | 50                | 11116          | 50PAR30L/H/FL40  | 120        | 15            | CC-8 | 4.75 |      | 3000             | 580            | 2800                      | 1100                      | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight                  |
|                                                                                    |            | 50                | 11123          | 50PAR30L/H/FL40  | 130        | 15            | CC-8 | 4.75 |      | 3000             | 580            | 2800                      | 1100                      | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight                  |
|                                                                                    |            | 46                |                |                  | 120        |               |      |      |      | 6000             | 460            |                           |                           |                           |                             |
|                                                                                    |            | 50                | 14941          | 50PAR30L/H/WFL   | 120        | 6             | CC-8 | 4.75 |      | 3000             | 630            | 2800                      |                           | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Wide Floodlight             |
|                                                                                    |            | 75                | 11124          | 75PAR30L/H/SP10  | 120        | 15            | CC-8 | 4.75 |      | 3000             | 940            | 2830                      | 13000                     | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight                   |
|                                                                                    |            | 75                | 11129          | 75PAR30L/H/SP10  | 130        | 15            | CC-8 | 4.75 |      | 3000             | 940            | 2830                      | 13000                     | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight                   |
|                                                                                    |            | 66                |                |                  | 120        |               |      |      |      | 6000             | 751            |                           |                           |                           |                             |
|                                                                                    |            | 75                | 14943          | 75PAR30L/H/FL25  | 120        | 6             | CC-8 | 4.75 |      | 3000             | 940            | 2830                      | 3800                      | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight                  |
|                                                                                    |            | 75                | 11131          | 75PAR30L/H/FL25  | 130        | 15            | CC-8 | 4.75 |      | 3000             | 940            | 2830                      | 3800                      | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight                  |
|                                                                                    |            | 66                |                |                  | 120        |               |      |      |      | 6000             | 751            |                           |                           |                           |                             |
| 75                                                                                 | 16393      | 75PAR30L/H/WFL    | 120            | 6                | CC-8       | 4.75          |      | 3000 | 1050 | 2830             |                |                           | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Wide Floodlight           |                             |
|                                                                                    | 81862      | 75PAR30LHFL25/RVL | 120            | 6                | CC-8       | 4.75          |      | 3000 | 980  |                  |                |                           | 1a, 2a, 4f, 4h, 9a, 10c   | Reveal®, Floodlight       |                             |
| COMPACT PAR30                                                                      |            |                   |                |                  |            |               |      |      |      |                  |                |                           |                           |                           |                             |
|    | PAR30 Med  | 50                | 14023          | 50PAR30/H/SP10   | 120        | 6             | CC-8 | 3.62 |      | 3000             | 630            | 2800                      | 8200                      | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight                   |
|                                                                                    |            | 50                | 17870          | 50PAR30/H/SP10   | 130        | 15            | CC-8 | 3.62 |      | 3000             | 630            | 2800                      | 8200                      | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight                   |
|                                                                                    |            | 46                |                |                  | 120        |               |      |      |      | 6000             | 500            |                           |                           |                           |                             |
|                                                                                    |            | 50                | 17871          | 50PAR30/H/FL25   | 120        | 15            | CC-8 | 3.62 |      | 3000             | 630            | 2800                      | 2300                      | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight                  |
|                                                                                    |            | 50                | 17872          | 50PAR30/H/FL25   | 130        | 15            | CC-8 | 3.62 |      | 3000             | 630            | 2800                      | 2300                      | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight                  |
|                                                                                    |            | 46                |                |                  | 120        |               |      |      |      | 6000             | 500            |                           |                           |                           |                             |
|                                                                                    |            | 50                | 14022          | 50PAR30/H/FL35   | 120        | 6             | CC-8 | 3.62 |      | 3000             | 630            | 2800                      | 1400                      | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight                  |
|                                                                                    |            | 50                | 17874          | 50PAR30/H/FL35   | 130        | 15            | CC-8 | 3.62 |      | 3000             | 630            | 2800                      | 1400                      | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight                  |
|                                                                                    |            | 46                |                |                  | 120        |               |      |      |      | 6000             | 500            |                           |                           |                           |                             |
|                                                                                    |            | 60                | 27212          | 60PAR30/H/NSP9   | 120        | 15            | CC-8 | 3.62 |      | 3000             | 800            | 2800                      | 11000                     | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight                   |
|                                                                                    | 40167      | 60PAR30/H/FL25    | 120            | 15               | CC-8       | 3.62          |      | 3000 | 800  | 2800             | 2900           | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight                |                           |                             |
|                                                                                    | 27214      | 60PAR30/H/FL35    | 120            | 15               | CC-8       | 3.62          |      | 3000 | 800  | 2800             | 1700           | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight                |                           |                             |
| 75                                                                                 | 14802      | 75PAR30/H/SP10    | 120            | 6                | CC-8       | 3.62          |      | 3000 | 1030 | 2830             | 13000          | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight                 |                           |                             |
|                                                                                    | 81863      | 75PAR30HFL35/RVL  | 120            | 6                | CC-8       | 3.62          |      | 3000 | 1010 |                  |                |                           | 1a, 2a, 4f, 4h, 9a, 10c   | Reveal®, Floodlight       |                             |
| 75                                                                                 | 18056      | 75PAR30/H/SP10    | 130            | 15               | CC-8       | 3.62          |      | 3000 | 1030 | 2830             | 13000          | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight                 |                           |                             |
| 66                                                                                 |            |                   | 120            |                  |            |               |      | 6000 | 790  |                  |                |                           |                           |                           |                             |
| 75                                                                                 | 18057      | 75PAR30/H/FL25    | 120            | 15               | CC-8       | 3.62          |      | 3000 | 1030 | 2830             | 3800           | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight                |                           |                             |
|                                                                                    | 14779      | 75PAR30/H/FL35    | 120            | 6                | CC-8       | 3.62          |      | 3000 | 1030 | 2830             | 2400           | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight                |                           |                             |
| 75                                                                                 | 18060      | 75PAR30/H/FL35    | 130            | 15               | CC-8       | 3.62          |      | 3000 | 1030 | 2830             | 2400           | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight                |                           |                             |
| 66                                                                                 |            |                   | 120            |                  |            |               |      | 6000 | 790  |                  |                |                           |                           |                           |                             |
| COMPACT PAR20                                                                      |            |                   |                |                  |            |               |      |      |      |                  |                |                           |                           |                           |                             |
|  | PAR20 Med  | 50                | 14927          | 50PAR20/H/SP10   | 120        | 6             | CC-8 | 3.13 |      | 2500             | 570            | 2800                      | 6000                      | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight                   |
|                                                                                    |            |                   | 81861          | 50PAR20HFL25/RVL | 120        | 6             | CC-8 | 3.13 |      | 2500             |                |                           |                           | 1a, 2a, 4f, 4h, 9a, 10c   | Reveal®, Floodlight         |
|                                                                                    |            | 50                | 17866          | 50PAR20/H/SP10   | 130        | 15            | CC-8 | 3.13 |      | 2500             | 570            | 2800                      | 6000                      | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Spotlight                   |
|                                                                                    |            | 46                |                |                  | 120        |               |      |      |      | 5000             | 498            |                           |                           |                           |                             |
| 50                                                                                 | 14928      | 50PAR20H/FL25     | 120            | 6                | CC-8       | 3.13          |      | 2500 | 570  | 2800             | 1500           | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight                |                           |                             |
| 50                                                                                 | 17868      | 50PAR20/H/FL25    | 130            | 15               | CC-8       | 3.13          |      | 2500 | 570  | 2800             | 1500           | ➤ 1a, 2a, 4f, 4h, 9a, 10c | Floodlight                |                           |                             |
| 46                                                                                 |            |                   | 120            |                  |            |               |      | 5000 | 498  |                  |                |                           |                           |                           |                             |
| HALOGEN COMPACT PAR16                                                              |            |                   |                |                  |            |               |      |      |      |                  |                |                           |                           |                           |                             |
|  | PAR16 Med  | 35                | 82135          | 35PAR16CURIO-PQ  | 120        | 6             | CC-8 | 2.88 |      | 3000             |                |                           |                           | 1a, 2a, 4f, 4h, 9a, 10c   |                             |
|                                                                                    |            | 60                | 41628          | 60PAR16/H/SP10   | 120        | 6             | CC-8 | 2.88 |      | 2000             | 650            | 2950                      | 5400                      | 1a, 2a, 4f, 4h, 9a, 10c   | Spotlight                   |
|                                                                                    |            |                   | 41623          | 60PAR16/H/FL30   | 120        | 6             | CC-8 | 2.88 |      | 2000             | 650            | 2950                      | 1550                      | 1a, 2a, 4f, 4h, 9a, 10c   | Floodlight                  |
|                                                                                    |            |                   | 82142          | 60PAR16FL/RVL-CD | 120        | 6             | CC-8 | 2.88 |      | 2000             |                |                           |                           | 1a, 2a, 4f, 4h, 9a, 10c   | Reveal®, Floodlight, Carded |
|                                                                                    |            | 75                | 41630          | 75PAR16/H/SP10   | 120        | 6             | CC-8 | 2.88 |      | 2000             | 900            | 2950                      | 6200                      | 1a, 2a, 4f, 4h, 9a, 10c   | Spotlight                   |
|                                                                                    |            | 41629             | 75PAR16/H/FL30 | 120              | 6          | CC-8          | 2.88 |      | 2000 | 900              | 2950           | 1600                      | 1a, 2a, 4f, 4h, 9a, 10c   | Floodlight                |                             |

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## Halogen Lamps

| Bulb Shape                                                                          | Base Type | Order Watts | Code | Description | Case Volts        | Filament Qty. | Type | MOL  | LCL  | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP  | Footnotes                                | Additional Information   |
|-------------------------------------------------------------------------------------|-----------|-------------|------|-------------|-------------------|---------------|------|------|------|------------------|----------------|---------------------|-------|------------------------------------------|--------------------------|
| HALOGEN COMPACT PAR LAMPS (CONTINUED)                                               |           |             |      |             |                   |               |      |      |      |                  |                |                     |       |                                          |                          |
| DIAMOND PRECISE® ELECTRONIC MR16                                                    |           |             |      |             |                   |               |      |      |      |                  |                |                     |       |                                          |                          |
|     | MR16      | Med         | 21   | 48545       | Q21EMR16/C/SP12   | 120           | 6    | C-6  | 3.38 | 5000             | 260            | 2950                | 3900  | ➤ 1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c    | Narrow Spot              |
|                                                                                     |           |             |      | 48546       | Q21EMR16/C/FL25   | 120           | 6    | C-6  | 3.38 | 5000             | 260            | 2950                | 890   | ➤ 1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c    | Narrow Flood             |
|                                                                                     |           |             |      | 48547       | Q21EMR16/C/SP12CD | 120           | 6    | C-6  | 3.38 | 5000             | 260            | 2950                | 3900  | ➤ 1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c    | Narrow Spot, Carded      |
|                                                                                     |           |             |      | 48548       | Q21EMR16/C/FL25CD | 120           | 6    | C-6  | 3.38 | 5000             | 260            | 2950                | 890   | ➤ 1a, 1c, 2a, 2b, 4f, 4i, 4k, 9b, 10c    | Narrow Flood, Carded     |
| PAR36                                                                               |           |             |      |             |                   |               |      |      |      |                  |                |                     |       |                                          |                          |
|    | PAR36     | Scrw Term   | 35   | 19873       | 35PAR36/H/SP5     | 12            | 12   | C-6  | 2.75 | 4000             | 250            | 3050                | 25000 | ➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c            | Spotlight                |
|                                                                                     |           |             |      | 19876       | 35PAR36/H/SP8     | 12            | 12   | C-6  | 2.75 | 4000             | 250            | 3050                | 8000  | ➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c            | Spotlight                |
|                                                                                     |           |             |      | 19877       | 35PAR36/H/FL30    | 12            | 12   | C-6  | 2.75 | 4000             | 250            | 3050                | 900   | ➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c            | Floodlight               |
|                                                                                     |           |             |      | 42072       | 35PAR36/H/VWFL    | 12            | 12   | C-6  | 2.75 | 4000             | 250            | 3050                |       | ➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c            | Wide Flood               |
|                                                                                     |           |             | 50   | 19878       | 50PAR36/H/SP5     | 12            | 12   | C-6  | 2.75 | 4000             | 400            | 3050                | 39000 | ➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c            | Spotlight                |
|                                                                                     |           |             |      | 19879       | 50PAR36/H/SP8     | 12            | 12   | C-6  | 2.75 | 4000             | 400            | 3050                | 10000 | ➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c            | Spotlight                |
|                                                                                     |           |             |      | 19880       | 50PAR36/H/FL30    | 12            | 12   | C-6  | 2.75 | 4000             | 400            | 3050                | 1300  | ➤ 2a, 2b, 4f, 4g, 7a, 9b, 10c            | Floodlight               |
| A-15                                                                                |           |             |      |             |                   |               |      |      |      |                  |                |                     |       |                                          |                          |
|   | A15       | Med         | 40   | 82114       | 40A15CF/CL/H-CD2  | 120           | 6    | CC-8 | 3.50 | 2250             |                |                     |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Celing Fan, Halogen      |
|                                                                                     |           |             | 60   | 82115       | 60A15CF/CL/H-CD2  | 120           | 6    | CC-8 | 3.50 | 2250             |                |                     |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Celing Fan, Halogen      |
| A-19                                                                                |           |             |      |             |                   |               |      |      |      |                  |                |                     |       |                                          |                          |
|  | A19       | Med         | 60   | 82137       | 60A/CL/H/RVL-CD   | 120           | 5    | C-8  | 4.43 | 3000             | 675            |                     |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Reveal®, Halogen         |
|                                                                                     |           |             | 75   | 82138       | 75A/CL/H/RVL-CD   | 120           | 5    | C-8  | 4.43 | 3000             | 850            |                     |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Reveal®, Halogen         |
|                                                                                     |           |             | 100  | 82139       | 100A/CL/H/RVL-CD  | 120           | 5    | C-8  | 4.43 | 3000             | 1275           |                     |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Reveal®, Halogen         |
| A-21                                                                                |           |             |      |             |                   |               |      |      |      |                  |                |                     |       |                                          |                          |
|  | A21       | Med         | 30   | 24699       | 30/100-HALOGEN    | 120           | 6    | CC-8 | 5.25 | 2500             | 300            |                     |       | 1a, 2a, 2b, 2c, 4i, 4j, 9a, 10b, 10c     | 3-Way                    |
|                                                                                     |           |             | 70   |             |                   |               |      |      |      |                  | 1050           |                     |       |                                          |                          |
|                                                                                     |           |             | 100  |             |                   |               |      |      |      |                  | 1370           |                     |       |                                          |                          |
|                                                                                     |           |             | 50   | 81590       | 50/150-HALOGEN    | 120           | 6    | CC-8 | 5.25 | 2500             | 700            |                     |       | 1a, 2a, 2b, 2c, 4i, 4j, 9a, 10b, 10c     | 3-Way                    |
|                                                                                     |           |             | 100  |             |                   |               |      |      |      |                  | 1600           |                     |       |                                          |                          |
|                                                                                     |           | 150         |      |             |                   |               |      |      |      | 2300             |                |                     |       |                                          |                          |
| HALOGEN REFLECTORS                                                                  |           |             |      |             |                   |               |      |      |      |                  |                |                     |       |                                          |                          |
|   | BR30      | Med         | 60   | 85116       | 60BR30FL/H-PQ1/6  | 120           | 6    | CC-8 | 5.37 | 3000             | 700            |                     |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Halogen Reflector        |
|                                                                                     |           |             |      | 85127       | 60BR30FL/H-3PK    | 120           | 6    | CC-8 | 5.37 | 3000             | 700            |                     |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Halogen Reflector 3-Pack |
|   | BR40      | Med         | 60   | 85131       | 60BR40FL/H-PQ1/6  | 120           | 6    | CC-8 | 6.56 | 3000             | 790            |                     |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Halogen Reflector        |
|                                                                                     |           |             | 100  | 85146       | 100BR40F/H-PQ1/6  | 120           | 6    | CC-8 | 6.56 | 3000             | 1200           |                     |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c | Halogen Reflector        |
| G16.5 GC                                                                            |           |             |      |             |                   |               |      |      |      |                  |                |                     |       |                                          |                          |
|  | G16.5     | Cand        | 40   | 82131       | 40GC/CL/H-PQ2/3   | 120           | 6    | CC-8 | 3.00 | 2250             |                |                     |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c |                          |
|                                                                                     |           |             | 60   | 82132       | 60GC/CL/H-PQ2/3   | 120           | 6    | CC-8 | 3.00 | 2250             |                |                     |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 7a, 10b, 10c |                          |



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| Bulb Shape                                                                         | Base Type | Order Watts | Code  | Description     | Case Volts     | Filament Qty. | Type | MOL  | LCL  | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP                                        | Footnotes                                   | Additional Information                      |
|------------------------------------------------------------------------------------|-----------|-------------|-------|-----------------|----------------|---------------|------|------|------|------------------|----------------|---------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| G16.5 (CONTINUED)                                                                  |           |             |       |                 |                |               |      |      |      |                  |                |                     |                                             |                                             |                                             |
| GM                                                                                 |           |             |       |                 |                |               |      |      |      |                  |                |                     |                                             |                                             |                                             |
|    | Med       | 40          | 82133 | 40GM/CL/H-PQ2/3 | 120            | 6             | CC-8 | 3.00 |      | 2250             |                |                     |                                             | 1a, 1b, 2a, 2b, 2e, 4i<br>4j, 7a, 10b, 10c  |                                             |
|                                                                                    |           | 60          | 82134 | 60GM/CL/H-PQ2/3 | 120            | 6             | CC-8 | 3.00 |      | 2250             |                |                     |                                             | 1a, 1b, 2a, 2b, 2e, 4i<br>4j, 7a, 10b, 10c  |                                             |
| A-LINE/DECORATIVE                                                                  |           |             |       |                 |                |               |      |      |      |                  |                |                     |                                             |                                             |                                             |
|    | B13       | Med         | 45    | 45650           | 45BM/HAL/PQ1/6 | 120           | 6    | CC-8 | 4.63 | 2.38             | 3000           | 600                 | 2750                                        | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | Frost, Thick Glass                          |
|                                                                                    | TB19      | Med         | 50    | 16747           | 50TB/H         | 130           | 60   | CC-8 | 4.43 | 3.13             | 2000           | 710                 | 2800                                        | 1a, 2a, 4f, 4h, 9a, 10c                     | Frost, Thick Glass                          |
| 46                                                                                 |           |             |       |                 | 120            |               |      |      |      | 4000             | 540            |                     |                                             |                                             |                                             |
|    |           | 50          | 20647 | 50A/HAL 6PK     | 120            | 6             | CC-8 | 4.43 | 3.13 | 2000             | 710            | 2800                | 1a, 2a, 4f, 4h, 9a, 10c                     | Frost, Thick Glass                          |                                             |
|                                                                                    |           | 60          | 48105 | 60A/HAL/CD      | 120            | 4             | CC-8 | 4.43 | 2.62 | 3000             | 840            | 2800                | 1a, 2a, 4f, 4h, 9a, 10c                     | Frost, Thick Glass                          |                                             |
|    |           |             | 48106 | 60A/HAL/CL/CD   | 120            | 4             | CC-8 | 4.43 | 2.62 | 3000             | 870            | 2800                | 1a, 2a, 4f, 4h, 9a, 10c                     | Clear, Thick Glass                          |                                             |
|                                                                                    |           | 75          | 48107 | 75A/HAL/CD      | 120            | 4             | CC-8 | 4.43 | 2.62 | 3000             | 1170           | 2850                | 1a, 2a, 4f, 4h, 9a, 10c                     | Frost, Thick Glass                          |                                             |
|    |           | 90          | 16745 | 90TB/H          | 130            | 60            | CC-8 | 4.43 | 3.13 | 2000             | 1580           | 2930                | 1a, 2a, 4f, 4h, 9a, 10c                     | Frost, Thick Glass                          |                                             |
|                                                                                    |           | 81          |       |                 | 120            |               |      |      |      | 4000             | 1220           |                     |                                             |                                             |                                             |
|    |           | 90          | 20648 | 90A/HAL 6PK     | 120            | 6             | CC-8 | 4.43 | 3.13 | 2000             | 1580           | 2930                | 1a, 2a, 4f, 4h, 9a, 10c                     | Frost, Thick Glass                          |                                             |
|                                                                                    |           |             | 48108 | 90A/HAL/CD      | 120            | 4             | CC-8 | 4.43 | 2.62 | 3000             | 1470           | 2930                | 1a, 2a, 4f, 4h, 9a, 10c                     | Frost, Thick Glass                          |                                             |
|    | BT14.5    | Med         | 60    | 10036           | 60BTT/CL/CD    | 120           | 5    | C-8  | 4.75 | 3.00             | 3000           | 900                 | 2800                                        | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | Clear, Brass Base,<br>Carded                |
|                                                                                    |           |             |       | 11856           | 60BTT/CL/CD/TW | 120           | 5    | C-8  | 4.75 | 3.00             | 3000           | 900                 | 2800                                        | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | Clear, Brass Base<br>twin pack, Carded      |
|   |           |             | 10038 | 60BTT/SW/CD     | 120            | 5             | C-8  | 4.75 | 3.00 | 3000             | 840            | 2800                | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | White, Brass Base,<br>Carded                |                                             |
|                                                                                    |           |             | 10039 | 60BTT/SW/CD/TW  | 120            | 5             | C-8  | 4.75 | 3.00 | 3000             | 840            | 2800                | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | White, Brass Base<br>twin pack, Carded      |                                             |
|  |           | 75          | 10040 | 75BTT/SW/CD     | 120            | 5             | C-8  | 4.75 | 3.00 | 3000             | 1070           | 2850                | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | White, Brass Base,<br>Carded                |                                             |
|                                                                                    |           | 100         | 10042 | 100BTT/SW/CD    | 120            | 5             | C-8  | 4.75 | 3.00 | 3000             | 1600           | 2900                | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | White, Brass Base,<br>Carded                |                                             |
|  |           | 150         | 10043 | 150BTT/SW/CD    | 120            | 5             | C-8  | 4.75 | 3.00 | 3000             | 2430           | 2900                | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | White, Brase Base,<br>Carded                |                                             |
|                                                                                    |           | F14.5       | Med   | 60              | 10044          | 60BTT/POST/CD | 120  | 5    | C-8  | 4.75             | 3.00           | 3000                | 900                                         | 2800                                        | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c |
|  | B10       | Med         | 25    | 16760           | 25BM/H/CD2     | 120           | 5    | CC-8 | 3.4  | 2.22             | 2250           | 280                 | 2700                                        | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | Carded Twin Pack                            |
|                                                                                    |           |             | 40    | 16761           | 40BM/H/CD2     | 120           | 5    | CC-8 | 3.4  | 2.22             | 2250           | 485                 | 2800                                        | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | Carded Twin Pack                            |
|  |           | Cand        | 25    | 16764           | 25BC/H/CD2     | 120           | 5    | CC-8 | 3.4  | 2.22             | 2250           | 280                 | 2700                                        | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | Carded Twin Pack                            |
|                                                                                    |           |             | 40    | 16765           | 40BC/H/CD2     | 120           | 5    | CC-8 | 3.4  | 2.22             | 2250           | 485                 | 2800                                        | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | Carded Twin Pack                            |
|  | T10       | Med         | 25    | 16766           | 25BFM/H/CD2    | 120           | 5    | CC-8 | 3.4  | 2.22             | 2250           | 280                 | 2700                                        | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | Carded Twin Pack                            |
|                                                                                    |           |             | 40    | 16767           | 40/BFM/H/CD2   | 120           | 5    | CC-8 | 3.4  | 2.22             | 2250           | 485                 | 2800                                        | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | Carded Twin Pack                            |
|  |           |             | 40    | 16771           | 40G25/H/CL     | 120           | 6    | CC-8 | 4.45 | 2.56             | 2250           | 510                 | 2700                                        | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c |                                             |
|                                                                                    |           |             |       | 82140           | 40G25/CL/H/RVL | 120           | 6    | C-8  | 4.50 |                  | 2250           |                     |                                             | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | Reveal® Halogen                             |
|  |           |             | 60    | 16773           | 60G25/H/CL     | 120           | 6    | CC-8 | 4.45 | 2.56             | 2250           | 1000                | 2900                                        | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c |                                             |
|                                                                                    |           |             |       | 82141           | 60G25/CL/H/RVL | 120           | 6    | C-8  | 4.50 |                  | 2250           |                     |                                             | 1a, 1b, 2a, 2b, 2e, 4i,<br>4j, 9a, 10b, 10c | Reveal® Halogen                             |
|  |           |             |       |                 |                |               |      |      |      |                  |                |                     |                                             |                                             |                                             |

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## Halogen Lamps

| Bulb Shape                                                                          | Base Type | Order Watts | Code  | Description     | Case Volts       | Filament Qty. | Type | MOL  | LCL  | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP  | Footnotes                                | Additional Information       |                                |
|-------------------------------------------------------------------------------------|-----------|-------------|-------|-----------------|------------------|---------------|------|------|------|------------------|----------------|---------------------|-------|------------------------------------------|------------------------------|--------------------------------|
| A-LINE/DECORATIVE (CONTINUED)                                                       |           |             |       |                 |                  |               |      |      |      |                  |                |                     |       |                                          |                              |                                |
|     | Med       | 40          | 16774 | 40G25/H/CRYSTAL | 120              | 6             | CC-8 | 4.45 | 2.56 | 2250             | 500            | 2700                |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c |                              |                                |
|                                                                                     |           | 60          | 16775 | 60G25/H/CRYSTAL | 120              | 6             | CC-8 | 4.45 | 2.56 | 2250             | 960            | 2900                |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c |                              |                                |
|    | Med       | 25          | 16776 | 25T10/H/CD      | 120              | 4             | CC-8 | 5.04 | 2.56 | 2250             | 260            | 2700                |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Carded                       |                                |
|                                                                                     |           | 40          | 16777 | 40T10/H/CD      | 120              | 4             | CC-8 | 5.04 | 2.56 | 2250             | 510            | 2700                |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Carded                       |                                |
|                                                                                     |           | 60          | 16778 | 60T10/H/CD      | 120              | 4             | CC-8 | 5.04 | 2.56 | 2250             | 800            | 2900                |       | 1a, 1b, 2a, 2b, 2e, 4i, 4j, 9a, 10b, 10c | Carded                       |                                |
| AR111                                                                               |           |             |       |                 |                  |               |      |      |      |                  |                |                     |       |                                          |                              |                                |
|    | G53       | 35          | 97532 | 35AR111/SP8     | 12               | 10            |      | 2.64 |      | 2000             |                | 2800                | 14000 | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c  | Spotlight                    |                                |
|                                                                                     |           |             | 97533 | 35AR111/FL24    | 12               | 10            |      | 2.64 |      | 2000             |                | 2800                | 2500  | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c  | Narrow Floodlight            |                                |
|                                                                                     |           | 50          | 97534 | 50AR111/SP8     | 12               | 10            |      | 2.64 |      | 3000             |                | 2800                | 17800 | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c  | Spotlight                    |                                |
|                                                                                     |           |             | 97535 | 50AR111/FL24    | 12               | 10            |      | 2.64 |      | 3000             |                | 2800                | 3500  | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c  | Narrow Floodlight            |                                |
|                                                                                     |           | 75          | 97536 | 75AR111/SP8     | 12               | 10            |      | 2.64 |      | 3000             |                | 2900                | 23500 | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c  | Spotlight                    |                                |
|                                                                                     |           |             | 97537 | 75AR111/FL24    | 12               | 10            |      | 2.64 |      | 3000             |                | 2900                | 5300  | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c  | Narrow Floodlight            |                                |
|                                                                                     |           |             | 97538 | 75AR111/FL45    | 12               | 10            |      | 2.64 |      | 3000             |                | 2900                | 1700  | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c  | Wide Floodlight              |                                |
|                                                                                     |           | 100         | 97539 | 100AR111/SP8    | 12               | 10            |      | 2.64 |      | 3000             |                | 2950                | 40000 | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c  | Spotlight                    |                                |
|                                                                                     |           |             | 97540 | 100AR111/FL24   | 12               | 10            |      | 2.64 |      | 3000             |                | 2950                | 8000  | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c  | Narrow Floodlight            |                                |
|                                                                                     |           |             | 97541 | 100AR111/FL45   | 12               | 10            |      | 2.64 |      | 3000             |                | 2950                | 2300  | 2a, 2j, 4a, 4c, 4e, 4f 9a, 9d, 10b, 10c  | Wide Floodlight              |                                |
| MR                                                                                  |           |             |       |                 |                  |               |      |      |      |                  |                |                     |       |                                          |                              |                                |
| TURN & LOCK CONSTANTCOLOR®                                                          |           |             |       |                 |                  |               |      |      |      |                  |                |                     |       |                                          |                              |                                |
|   | MR16      | TAL         | 35    | 30932           | 35MR16/Q/8/TL    | 12            | 10   | C-6  | 2    |                  | 3500           |                     | 2900  | 8100                                     | 2a, 2b, 4f, 7a, 9a, 10b, 10c | Narrow Spot                    |
|                                                                                     |           |             | 50    | 30901           | 50MR16/Q/10/TL   | 12            | 10   | C-6  | 2    |                  | 3500           |                     | 3000  | 10800                                    | 2a, 2b, 4f, 7a, 9a, 10b, 10c | Narrow Spot                    |
|                                                                                     |           |             |       | 30900           | 50MR16/Q/20/TL   | 12            | 10   | C-6  | 2    |                  | 3500           |                     | 3000  | 3330                                     | 2a, 2b, 4f, 7a, 9a, 10b, 10c | Narrow Flood                   |
|                                                                                     |           |             |       | 30899           | 50MR16/Q/40/TL   | 12            | 10   | C-6  | 2    |                  | 3500           |                     | 3000  | 1395                                     | 2a, 2b, 4f, 7a, 9a, 10b, 10c | Floodlight                     |
| CONSTANTCOLOR® PRECISE™ COVER GLASS MR16                                            |           |             |       |                 |                  |               |      |      |      |                  |                |                     |       |                                          |                              |                                |
|  | MR16      | 2-Pin GU5.3 | 20    | 20858           | Q20MR16C/CG15    | 12            | 20   | C-6  | 1.88 |                  | 5000           |                     | 2900  | 3150                                     | 2a, 2b, 4f, 9a, 10c          | Narrow Spot, ANSI: ESX         |
|                                                                                     |           |             |       | 20857           | Q20MR16C/CG40    | 12            | 20   | C-6  | 1.88 |                  | 5000           |                     | 2900  | 475                                      | 2a, 2b, 4f, 9a, 10c          | Flood, ANSI: BAB               |
|                                                                                     |           |             |       | 21456           | FAM6Q20MR16NSCCG | 12            | 1    | C-6  | 1.88 |                  | 5000           |                     | 2900  | 3350                                     | 2a, 2b, 4f, 9a, 10c          | Narrow Spot, Carded, ANSI: ESX |
|                                                                                     |           |             |       | 21455           | FAM6Q20MR16FLCCG | 12            | 1    | C-6  | 1.88 |                  | 5000           |                     | 2900  | 490                                      | 2a, 2b, 4f, 9a, 10c          | Flood, Carded ANSI: BAB        |
|                                                                                     |           |             | 35    | 20864           | Q35MR16/C/CG12   | 12            | 20   | C-6  | 1.88 |                  | 5000           |                     | 3000  | 7500                                     | 2a, 2b, 4f, 9a, 10c          | Narrow Spot, ANSI: FRB         |
|                                                                                     |           |             |       | 20860           | Q35MR16C/CG20    | 12            | 20   | C-6  | 1.88 |                  | 5000           |                     | 3000  | 3200                                     | 2a, 2b, 4f, 9a, 10c          | Spot, ANSI: FRA                |



| Bulb Shape                                                                         | Base Type | Order Watts | Code | Description            | Case Volts | Filament Qty. | Type | MOL  | LCL | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP  | Footnotes                                | Additional Information               |
|------------------------------------------------------------------------------------|-----------|-------------|------|------------------------|------------|---------------|------|------|-----|------------------|----------------|---------------------|-------|------------------------------------------|--------------------------------------|
| <b>MR (CONTINUED)</b>                                                              |           |             |      |                        |            |               |      |      |     |                  |                |                     |       |                                          |                                      |
| <b>CONSTANTCOLOR® PRECISE™ COVER GLASS MR16 (CONTINUED)</b>                        |           |             |      |                        |            |               |      |      |     |                  |                |                     |       |                                          |                                      |
|    | MR16      | 2-Pin GU5.3 | 35   | 20859 Q35MR16C/CG40    | 12         | 20            | C-6  | 1.88 |     | 5000             |                | 3000                | 900   | 2a, 2b, 4f, 9a, 10c                      | Flood, ANSI: FMW                     |
|                                                                                    |           |             |      | 23252 FAM6Q35MR16SPCCG | 12         | 1             | C-6  | 1.88 |     | 5000             |                | 3000                | 3200  | 2a, 2b, 4f, 9a, 10c                      | Spot, Carded ANSI: FRB               |
|                                                                                    |           |             |      | 23253 FAM6Q35MR16FLCCG | 12         | 1             | C-6  | 1.88 |     | 5000             |                | 3000                | 900   | 2a, 2b, 4f, 9a, 10c                      | Flood, Clear Glass Carded, ANSI: FMW |
|                                                                                    |           |             |      | 41487 Q35MR16/CCG40    | 24         | 20            | C-6  | 1.88 |     | 4000             |                | 2950                | 920   | 2a, 2b, 4f, 9a, 10c                      | Flood                                |
|                                                                                    |           |             | 50   | 20872 Q50MR16C/CG15    | 12         | 20            | C-6  | 1.88 |     | 6000             |                | 3050                | 8400  | 2a, 2b, 4f, 9a, 10c                      | Narrow Spot ANSI: EXT                |
|                                                                                    |           |             |      | 20871 Q50MR16C/CG25    | 12         | 20            | C-6  | 1.88 |     | 6000             |                | 3050                | 2900  | 2a, 2b, 4f, 9a, 10c                      | Narrow Flood ANSI: EXZ               |
|                                                                                    |           |             |      | 20867 Q50MR16C/CG40    | 12         | 20            | C-6  | 1.88 |     | 6000             |                | 3050                | 1500  | 2a, 2b, 4f, 9a, 10c                      | Flood, ANSI: EXN                     |
|                                                                                    |           |             |      | 20865 Q50MR16C/CG55    | 12         | 20            | C-6  | 1.88 |     | 6000             |                | 3050                | 850   | 2a, 2b, 4f, 9a, 10c                      | Wide Flood, ANSI: FNV                |
|                                                                                    |           |             |      | 21458 FAM6Q50MR16NSCCG | 12         | 1             | C-6  | 1.88 |     | 6000             |                | 3050                | 9500  | 2a, 2b, 4f, 9a, 10c                      | Narrow Spot, Carded, ANSI: EXT       |
|                                                                                    |           |             |      | 21457 FAM6Q50MR16FLCCG | 12         | 1             | C-6  | 1.88 |     | 6000             |                | 3050                | 1720  | 2a, 2b, 4f, 9a, 10c                      | Flood, 3050K, Carded, ANSI: EXN      |
|                                                                                    |           |             |      | 41488 Q50MR16/CCG15    | 24         | 20            | C-6  | 1.88 |     | 4000             |                | 2950                | 8400  | 2a, 2b, 4f, 9a, 10c                      | Narrow Spot                          |
|                                                                                    |           |             |      | 41489 Q50MR16/CCG40    | 24         | 20            | C-6  | 1.88 |     | 4000             |                | 2950                | 1570  | 2a, 2b, 4f, 9a, 10c                      | Flood                                |
|                                                                                    |           |             | 71   | 20876 Q71MR16C/CG15    | 12         | 20            | C-6  | 1.88 |     | 4000             |                | 3050                | 10800 | 2a, 2b, 4f, 9a, 10c                      | Narrow Spot, ANSI: EYF               |
|                                                                                    |           |             |      | 20874 Q71MR16C/CG25    | 12         | 20            | C-6  | 1.88 |     | 4000             |                | 3050                | 4550  | 2a, 2b, 4f, 9a, 10c                      | Narrow Flood, ANSI: EYJ              |
|                                                                                    |           |             |      | 20873 Q71MR16C/CG40    | 12         | 20            | C-6  | 1.88 |     | 4000             |                | 3050                | 2000  | 2a, 2b, 4f, 9a, 10c                      | Flood, ANSI: EYC                     |
| <b>CONSTANTCOLOR® PRECISE™ MR16</b>                                                |           |             |      |                        |            |               |      |      |     |                  |                |                     |       |                                          |                                      |
|  | MR16      | 2-Pin GX5.3 | 20   | 20816 Q20MR16C/VNSP7   | 12         | 20            | CC-6 | 1.88 |     | 3000             |                | 2900                | 7400  | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Very Narrow Spot, ANSI: EZX          |
|                                                                                    |           |             |      | 20815 Q20MR16C/NSP15   | 12         | 20            | C-6  | 1.88 |     | 5000             |                | 2900                | 3750  | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Narrow Spot, ANSI: ESX               |
|                                                                                    |           |             |      | 20814 Q20MR16C/FL40 10 | 12         | 20            | C-6  | 1.88 |     | 5000             |                | 2900                | 525   | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Flood, ANSI: BAB                     |
|                                                                                    |           |             | 35   | 20826 Q35MR16C/SP20    | 12         | 20            | C-6  | 1.88 |     | 5000             |                | 3000                | 3900  | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Spot, ANSI: FRA                      |
|                                                                                    |           |             |      | 20825 Q35MR16C/FL40    | 12         | 20            | C-6  | 1.88 |     | 5000             |                | 3000                | 1000  | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Flood, ANSI: FMW                     |
|                                                                                    |           |             | 42   | 20830 Q42MR16C/VNSP9   | 12         | 20            | CC-6 | 1.88 |     | 3500             |                | 3000                | 12300 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Very Narrow Spot, ANSI: EYZ          |
|                                                                                    |           |             | 50   | 20839 Q50MR16C/NSP15   | 12         | 20            | C-6  | 1.88 |     | 6000             |                | 3050                | 9100  | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Narrow Spot, ANSI: EXT               |
|                                                                                    |           |             |      | 20835 Q50MR16C/NFL25   | 12         | 20            | C-6  | 1.88 |     | 6000             |                | 3050                | 3200  | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Narrow Flood, ANSI: EXZ              |
|                                                                                    |           |             |      | 20834 Q50MR16C/NFL30   | 12         | 20            | C-6  | 1.88 |     | 6000             |                | 3050                | 2500  | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Narrow Flood, ANSI: EXK              |
|                                                                                    |           |             |      | 20833 Q50MR16C/FL40    | 12         | 20            | C-6  | 1.88 |     | 6000             |                | 3050                | 1700  | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Flood, ANSI: EXN                     |
|                                                                                    |           |             |      | 20832 Q50MR16C/WFL55   | 12         | 20            | C-6  | 1.88 |     | 6000             |                | 3050                | 900   | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Wide Flood, ANSI: FNV                |
|                                                                                    |           |             | 71   | 20843 Q71MR16C/NSP15   | 12         | 20            | C-6  | 1.88 |     | 4000             |                | 3050                | 11500 | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Narrow Spot, ANSI: EYF               |
|                                                                                    |           |             |      | 20841 Q71MR16C/NFL25   | 12         | 20            | C-6  | 1.88 |     | 4000             |                | 3050                | 5500  | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Narrow Flood, ANSI: EYJ              |
|                                                                                    |           |             |      | 20840 Q71MR16C/FL40    | 12         | 20            | C-6  | 1.88 |     | 4000             |                | 3050                | 2200  | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Flood, ANSI: EYC                     |



| Bulb Shape                                                                         | Base Type | Watts       | Order Code | Description      | Case Volts       | Filament Qty.    | Type | MOL   | LCL   | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP                                     | Footnotes                                 | Additional Information                   |              |
|------------------------------------------------------------------------------------|-----------|-------------|------------|------------------|------------------|------------------|------|-------|-------|------------------|----------------|---------------------|------------------------------------------|-------------------------------------------|------------------------------------------|--------------|
| MR (CONTINUED)                                                                     |           |             |            |                  |                  |                  |      |       |       |                  |                |                     |                                          |                                           |                                          |              |
| PRECISE™ COVER GLASS IR MR16                                                       |           |             |            |                  |                  |                  |      |       |       |                  |                |                     |                                          |                                           |                                          |              |
|    | MR16      | 2-Pin GU5.3 | 37         | 16715            | Q37MR16/HIR/CG10 | 12               | 20   | C-8   | 1.8   | 4000             | 3000           | 12500               |                                          | 2a, 2b, 4f, 9a, 10c                       | Narrow Spot                              |              |
|                                                                                    |           |             |            | 16716            | Q37MR16/HIR/CG25 | 12               | 20   | C-8   | 1.8   | 4000             | 3000           | 4400                |                                          | 2a, 2b, 4f, 9a, 10c                       | Narrow Flood                             |              |
|                                                                                    |           |             |            | 16717            | Q37MR16/HIR/CG40 | 12               | 20   | C-8   | 1.8   | 4000             | 3000           | 2050                |                                          | 2a, 2b, 4f, 9a, 10c                       | Flood                                    |              |
|                                                                                    |           |             | 50         | 16718            | Q50MR16/HIR/CG10 | 12               | 20   | C-8   | 1.8   | 4000             | 3000           | 15000               |                                          | 2a, 2b, 4f, 9a, 10c                       | Narrow Spot                              |              |
|                                                                                    |           |             |            | 16719            | Q50MR16/HIR/CG25 | 12               | 20   | C-8   | 1.8   | 4000             | 3000           | 5700                |                                          | 2a, 2b, 4f, 9a, 10c                       | Narrow Flood                             |              |
|                                                                                    |           |             |            | 16720            | Q50MR16/HIR/CG40 | 12               | 20   | C-8   | 1.8   | 4000             | 3000           | 2600                |                                          |                                           | Flood                                    |              |
| STANDARD MR16                                                                      |           |             |            |                  |                  |                  |      |       |       |                  |                |                     |                                          |                                           |                                          |              |
|    | MR16      | 2-Pin GX5.3 | 20         | 25481            | Q20MR16/SP       | 12               | 20   | C-6   | 1.88  | 2000             |                | 2900                | 3500                                     | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c  | Spot, ANSI: ESX                          |              |
|                                                                                    |           |             |            | 25480            | Q20MR16/FL       | 12               | 20   | C-6   | 1.88  | 2000             |                | 2900                | 500                                      | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c  | Flood, ANSI: BAB                         |              |
|                                                                                    |           |             |            | 81763            | Q20MR16CGFLCD-BA | 12               | 6    | C-6   | 1.88  | 2000             |                |                     |                                          | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c  | Flood, Basic                             |              |
|                                                                                    |           |             |            | 81765            | Q20MR16CGSPCD-BA | 12               | 6    | C-6   | 1.88  | 2000             |                |                     |                                          | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c  | Spot, Basic                              |              |
|                                                                                    |           |             | 35         | 81768            | Q35MR16CGFLCD-BA | 12               | 6    | C-6   | 1.88  | 2000             |                |                     |                                          | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c  | Flood, Basic                             |              |
|                                                                                    |           |             |            | 81769            | Q35MR16CGSPCD-BA | 12               | 6    | C-6   | 1.88  | 2000             |                |                     |                                          | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c  | Spot, Basic                              |              |
|                                                                                    |           |             |            | 50               | 81770            | Q50MR16CGFLCD-BA | 12   | 6     | C-6   | 1.88             | 2000           |                     |                                          |                                           | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Flood, Basic |
|                                                                                    |           |             |            |                  | 81771            | Q50MR16CGSPCD-BA | 12   | 6     | C-6   | 1.88             | 2000           |                     |                                          |                                           | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Spot, Basic  |
|                                                                                    |           |             | 25483      |                  | Q50MR16/SP       | 12               | 20   | C-6   | 1.88  | 2000             |                | 2900                | 9500                                     | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c  | Spot, ANSI: EXT                          |              |
|                                                                                    |           |             | 25482      |                  | Q50MR16/FL       | 12               | 20   | C-6   | 1.88  | 2000             |                | 2900                | 1500                                     | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c  | Flood, ANSI: EXN                         |              |
|                                                                                    |           |             | 42098      | Q50MR16FL/CG/3PK | 12               | 6                | C-6  | 1.88  | 2000  |                  | 2900           | 1500                | 2a, 2b, 4c, 4f, 9a, 10c                  | Flood, ANSI: EXN                          |                                          |              |
|                                                                                    |           |             | 82110      | Q50MR16FCCGRV-CD | 12               | 6                | C-6  | 1.88  | 3000  |                  |                |                     | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Reveal®, Floodlight, Carded               |                                          |              |
|                                                                                    |           |             | 82111      | Q50MR16SCCGRV-CD | 12               | 6                | C-6  | 1.88  | 3000  |                  |                |                     | 2a, 2j, 4a, 4c, 4e, 4f, 9a, 9d, 10b, 10c | Reveal®, Spotlight, Carded                |                                          |              |
| STANDARD MR11                                                                      |           |             |            |                  |                  |                  |      |       |       |                  |                |                     |                                          |                                           |                                          |              |
|  | MR11      | 2-Pin GZ4   | 20         | 30754            | Q20MR11/SP15     | 12               | 10   | C-6   | 1.38  | 3500             |                | 2900                | 1760                                     | 2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a | Spot, ANSI: FTC                          |              |
|                                                                                    |           |             |            | 30773            | Q20MR11/NFL30    | 12               | 10   | C-6   | 1.38  | 3500             |                | 2900                | 600                                      | 2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a | Narrow Flood, ANSI: FTD                  |              |
|                                                                                    |           |             |            | 25197            | FAM6Q20MR11NF/CD | 12               | 1    | C-6   | 1.38  | 3500             |                | 2900                | 600                                      | 2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a | Narrow Flood, ANSI: FTD                  |              |
|                                                                                    |           |             | 35         | 30774            | Q35MR11SP20      | 12               | 10   | C-6   | 1.38  | 3500             |                | 2900                | 3000                                     | 2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a | Spot, ANSI: FTF                          |              |
|                                                                                    |           |             |            | 30890            | Q35MR11NFL30     | 12               | 10   | C-6   | 1.38  | 3500             |                | 2900                | 1300                                     | 2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a | Narrow Flood, ANSI: FTH                  |              |
|                                                                                    |           |             |            | 25349            | FAM6Q35MR11SP/CD | 12               | 1    | C-6   | 1.38  | 3500             |                | 2900                | 4100                                     | 2a, 2b, 4e, 4c, 4f, 9a, 9d, 10b, 10c, 11a | Spot, ANSI: FTF                          |              |
|                                                                                    |           |             | 41483      | Q35MR11/CG12 24  | 24               | 50               | C-6  | 1.38  | 2000  |                  | 2950           | 4100                | 2a, 2b, 4c, 4f, 9a, 10c                  | Spot                                      |                                          |              |
|                                                                                    |           |             | 41484      | Q35MR11/CG30 24  | 24               | 50               | C-6  | 1.38  | 2000  |                  | 2950           | 1300                | 2a, 2b, 4c, 4f, 9a, 10c                  | Narrow Flood                              |                                          |              |
| 120V MR16                                                                          |           |             |            |                  |                  |                  |      |       |       |                  |                |                     |                                          |                                           |                                          |              |
|  | MR16      | GU10        | 20         | 16753            | Q20GU10/FL/CD    | 120              | 5    | CC-2V | 2.13  | 2000             |                | 2600                | 230                                      | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c      |                                          |              |
|                                                                                    |           |             |            | 35               | 16752            | Q35GU10/FL/CD    | 120  | 5     | CC-2V | 2.13             | 3000           |                     | 2650                                     | 500                                       | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c     |              |



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| Bulb Shape                                                                         | Base Type | Watts        | Order Code | Description | Case Volts       | Filament Qty. | Type | MOL   | LCL  | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes | Additional Information                                              |                               |
|------------------------------------------------------------------------------------|-----------|--------------|------------|-------------|------------------|---------------|------|-------|------|------------------|----------------|---------------------|------|-----------|---------------------------------------------------------------------|-------------------------------|
| MR (CONTINUED)                                                                     |           |              |            |             |                  |               |      |       |      |                  |                |                     |      |           |                                                                     |                               |
| 120V MR16 (CONTINUED)                                                              |           |              |            |             |                  |               |      |       |      |                  |                |                     |      |           |                                                                     |                               |
|    | MR16      | GU10         | 50         | 16751       | Q50GU10/FL/CD    | 120           | 5    | CC-2V | 2.13 |                  | 3000           |                     | 2750 | 1000      | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                |                               |
|                                                                                    |           |              |            | 82143       | Q50GU10FL/RVL-CD | 120           | 6    | CC-2V | 2.13 |                  | 3000           |                     |      |           | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                | Reveal®, Floodlight, Carded   |
|                                                                                    | JDR16     | Med          | 35         | 20641       | 35PAR16/CURIO    | 120           | 3    | CC-6V | 2.05 |                  | 3000           |                     | 2700 | 500       | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                |                               |
| QUARTZ HALOGEN                                                                     |           |              |            |             |                  |               |      |       |      |                  |                |                     |      |           |                                                                     |                               |
|     | T3        | 2-Pin G4     | 5          | 42959       | Q5T3/CL          | 12            | 100  | C-6   | 1.25 | 0.75             | 2000           | 60                  |      |           | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c                                | Clear                         |
|                                                                                    |           |              | 10         | 34674       | Q10T3/CL         | 12            | 100  | C-6   | 1.25 | 0.75             | 2000           | 140                 |      |           | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c                                | Clear                         |
|                                                                                    |           |              |            | 19371       | Q10T3/CL/CD 5PK  | 12            | 25   | C-6   | 1.25 | 0.75             | 2000           | 140                 |      |           | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c                                | Clear, Carded                 |
|                                                                                    |           |              | 20         | 34715       | Q20T2.5/12V/CL   | 12            | 100  | C-6   | 1.25 | 0.75             | 2000           | 350                 |      |           | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c                                |                               |
|                                                                                    |           |              |            | 19375       | Q20T3/CL/CD 5PK  | 12            | 25   | C-6   | 1.25 | 0.75             | 2000           | 350                 |      |           | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c                                | Clear, Carded                 |
|     | T4        | 2-Pin G8     | 25         | 16809       | Q25G8/CD2        | 120           | 5    | CC-2V | 1.59 | 1.04             | 1500           | 240                 |      |           | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                | Twin Pack, Carded             |
|                                                                                    |           |              | 35         | 48428       | Q35G8/CD         | 120           | 5    | CC-2V | 1.77 | 1.34             | 1500           |                     |      |           | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                | Carded                        |
|   | T3        | 2-Pin GY6.35 | 35         | 34708       | Q35T3/12V/CL     | 12            | 100  | C-6   | 1.75 |                  | 2000           | 550                 |      |           | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c                                |                               |
|                                                                                    |           |              |            | 48503       | Q35T3/CL/CD 5PK  | 12            | 25   | C-8   | 1.75 |                  | 2000           |                     |      |           | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c                                | Carded                        |
|   | T4        | 2-Pin G8     | 50         | 21941       | Q50G8/CD         | 120           | 5    | CC-2V | 1.77 | 1.34             | 1300           | 700                 |      |           | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                | Carded                        |
|   | T3        | 2-Pin GY6.35 | 50         | 34702       | Q50T3/12V/CL     | 12            | 100  | C-6   | 1.75 |                  | 2000           | 900                 |      |           | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c                                |                               |
|                                                                                    |           |              |            | 19376       | Q50T3/CL/CD 5PK  | 12            | 25   | C-6   | 1.75 | 1.16             | 2000           | 900                 |      |           | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c                                | Clear, Carded                 |
|   | T4        | 2-Pin GY6.35 | 75         | 19377       | Q75T4/CL/CD 5PK  | 12            | 25   | C-6   | 1.75 | 1.16             | 2000           | 1600                |      |           | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c                                | Clear, Carded                 |
|   | T4        | 2-Pin G8     | 75         | 47801       | Q75G8/CD         | 120           | 5    | CC-2V | 1.77 | 1.34             | 1500           |                     |      |           | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                | Carded                        |
|                                                                                    |           |              | 100        | 47803       | Q100G8/CD        | 120           | 5    | CC-2V | 1.77 | 1.34             | 1500           |                     |      |           | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                | Carded                        |
|   | T3        | 2-Pin GY6.35 | 100        | 34676       | Q100T3/12V/CL    | 12            | 100  | CC-6  | 1.75 |                  | 2000           | 2350                |      |           | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c                                |                               |
|                                                                                    |           |              |            | 34663       | Q100T3/24V/CL    | 24            | 100  | CC-6  | 1.75 |                  | 2000           | 2000                |      |           | 2a, 2j, 4c, 4e, 4f, 9a, 9d, 10b, 10c                                |                               |
| QUARTZLINE®                                                                        |           |              |            |             |                  |               |      |       |      |                  |                |                     |      |           |                                                                     |                               |
| HIR™                                                                               |           |              |            |             |                  |               |      |       |      |                  |                |                     |      |           |                                                                     |                               |
|  | T2        | R7s          | 225        | 12282       | Q225T2CL/ULTRACD | 120           | 60   | C-8   | 4.69 | 2.5              | 3000           | 5950                | 2965 |           | ➤ 1a, 2a, 2b, 4c, 4d, 4e, 4f, 9a, 9d, 10b, 10c, 12b                 | IR, Clear, Horizontal         |
|  | T2.5      | R7s          | 350        | 12283       | Q350T3CL/ULTRACD | 120           | 60   | C-8   | 4.69 | 2.25             | 2000           | 10000               | 3075 |           | ➤ 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b | IR, Clear, Horizontal, Carded |
|                                                                                    |           |              |            | 13894       | Q350T3/CL/HIR    | 120           | 6    | C-8   | 4.69 | 2.25             | 2000           | 10000               | 3075 |           | ➤ 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b | IR, Clear, Horizontal         |
|                                                                                    |           |              |            | 14311       | Q350T3/CL/HIR    | 130           | 6    | C-8   | 4.69 | 2.25             | 2000           | 9600                | 3000 |           | ➤ 1a, 2a, 2j, 2k, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b | IR, Clear, Horizontal         |

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| Bulb Shape                                                                             | Base Type    | Watts | Order Code | Description      | Case Volts | Filament Qty. | Type  | MOL   | LCL  | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes                                                                                         | Additional Information    |
|----------------------------------------------------------------------------------------|--------------|-------|------------|------------------|------------|---------------|-------|-------|------|------------------|----------------|---------------------|------|---------------------------------------------------------------------------------------------------|---------------------------|
| <b>QUARTZLINE® (CONTINUED)</b>                                                         |              |       |            |                  |            |               |       |       |      |                  |                |                     |      |                                                                                                   |                           |
| <b>HIR™ (CONTINUED)</b>                                                                |              |       |            |                  |            |               |       |       |      |                  |                |                     |      |                                                                                                   |                           |
|  T2.5  | R7s          | 900   | 13642      | Q900T3/CL/HIR    | 240        | 6             | C-8   | 10.06 | 6.13 | 2000             | 32000          | 3160                |      | ➤ 1a, 2a, 2j, 2k, 4a, 4c, 4d, IR, Clear, Horizontal 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b         |                           |
|                                                                                        |              |       | 14335      | Q900T3/CL/HIR    | 277        | 6             | C-8   | 10.06 | 6.13 | 2000             | 31000          | 3160                |      | ➤ 1a, 2a, 2j, 2k, 4a, 4c, 4d, IR, Clear, Horizontal 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b Halogen |                           |
| <b>HALOGEN</b>                                                                         |              |       |            |                  |            |               |       |       |      |                  |                |                     |      |                                                                                                   |                           |
|  T4   | G9           | 25    | 16754      | Q25G9/CD         | 120        | 5             | CC-8  | 1.77  | 1.26 | 3000             | 240            | 2650                |      | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                                              | Carded                    |
|                                                                                        |              |       | 81300      | Q25G9/F/CD       | 120        | 5             | CC-8  | 1.77  | 1.26 | 3000             |                |                     |      | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                                              | Frosted, Carded           |
|                                                                                        |              | 40    | 16755      | Q40G9/CD         | 120        | 5             | CC-8  | 1.77  | 1.26 | 2000             | 480            | 2750                |      | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                                              | Carded                    |
|                                                                                        |              |       | 81301      | Q40G9/F/CD       | 120        | 5             | CC-8  | 1.77  | 1.26 | 2000             |                |                     |      | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                                              | Frosted, Carded           |
|                                                                                        |              | 60    | 81468      | Q60G9/F/CD       | 120        | 5             | CC-8  | 1.77  | 1.26 | 3000             |                |                     |      | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                                              | Frosted, Carded           |
|                                                                                        |              | 75    | 81469      | Q75G9/F/CD       | 120        | 5             | CC-8  | 1.77  | 1.26 | 3000             |                |                     |      | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                                              | Frosted, Carded           |
|  T4   | 2-Pin PreFoc | 45    | 41541      | Q45T4/CL         |            | 12            | C-6   | 2.5   | 1.53 | 500              | 835            |                     |      | 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12c                                         | Clear, Airport, Base Down |
|  T4 | G9           | 60    | 16756      | Q60G9/CD         | 120        | 5             | CC-8  | 1.77  | 1.26 | 3000             | 780            | 2800                |      | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                                              | Carded                    |
|                                                                                        |              | 75    | 16759      | Q75G9/CD         | 120        | 5             | CC-8  | 1.77  | 1.26 | 3000             | 1100           | 2850                |      | 1a, 2a, 2b, 2e, 4f, 4i, 9a, 10b, 10c                                                              | Carded                    |
|  T3 | Mini-Cand    | 75    | 39574      | Q75CL            | 28         | 20            | CC-6  | 2.5   | 1.19 | 2000             | 1350           |                     |      | 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e                                             | Clear                     |
|                                                                                        |              |       | 12715      | Q75CL/MC/CD      | 120        | 25            | CC-8  | 2.5   | 1.25 | 1000             | 1050           | 2850                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e                                         | Clear, Carded             |
|  T4 | R7s          | 100   | 22489      | Q100T3/CL/CD 5PK | 120        | 60            | C-8   | 3.13  | 1.25 | 1500             | 1650           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 11a                                         | Clear, Horizontal, Carded |
|  T4 | Mini-Cand    | 100   | 16452      | Q100MC           | 120        | 6             | CC-8  | 2.81  | 1.38 | 2000             | 1550           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e                                         | Frosted                   |
|                                                                                        |              |       | 15507      | Q100CL/MC        | 120        | 6             | CC-8  | 2.81  | 1.38 | 2000             | 1600           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e                                         | Clear                     |
|                                                                                        |              |       | 44385      | Q100CL/MC/2V     | 120        | 6             | CC-2V | 2.81  | 1.38 | 750              | 1800           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e                                         | Clear                     |
|                                                                                        |              |       | 19383      | Q100CL/MC/CD 5PK | 120        | 25            | CC-8  | 2.81  | 1.38 | 2000             | 1600           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e                                         | Clear, Carded             |
|  T4 | D C Bay      | 100   | 16451      | Q100DC           | 120        | 6             | CC-8  | 2.44  | 1.38 | 2000             | 1550           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e                                         | Frosted                   |
|                                                                                        |              |       | 15508      | Q100CL/DC        | 120        | 6             | CC-8  | 2.44  | 1.38 | 2000             | 1600           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e                                         | Clear                     |
|                                                                                        |              |       | 44386      | Q100CL/DC/2V     | 120        | 6             | CC-2V | 2.44  | 1.38 | 750              | 1800           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12e                                         | Clear                     |
|  T3  | R7s          | 150   | 27449      | Q150T3/117/CL/CD | 120        | 60            | C-8   | 4.69  | 2.25 | 1500             | 2400           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a                                         | Clear, Horizontal, Carded |
|                                                                                        |              |       | 19378      | Q150T3/CL/CD 5PK | 120        | 60            | C-8   | 3.13  | 1.25 | 1500             | 2400           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a                                             | Clear, Horizontal, Carded |
|                                                                                        |              |       | 80905      | Q150T3/HD/CD2    | 120        | 25            | C-8   | 3.13  | 1.25 | 2000             |                | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a                                             | Carded, Heavy Duty        |
|  T4  | R7s          | 150   | 23710      | Q150T4/CL        | 25         | 12            | CC-8  | 2.56  |      | 3000             | 2760           | 2850                |      | 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c                                                  | Clear, Dental Spotlight   |



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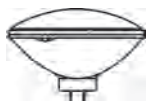
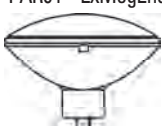
| Bulb Shape                                                                        | Base Type | Order Watts  | Code      | Description                   | Case Volts | Filament Qty. | Type  | MOL  | LCL  | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes                                                                  | Additional Information        |
|-----------------------------------------------------------------------------------|-----------|--------------|-----------|-------------------------------|------------|---------------|-------|------|------|------------------|----------------|---------------------|------|----------------------------------------------------------------------------|-------------------------------|
| <b>QUARTZLINE® (CONTINUED)</b>                                                    |           |              |           |                               |            |               |       |      |      |                  |                |                     |      |                                                                            |                               |
| <b>HALOGEN (CONTINUED)</b>                                                        |           |              |           |                               |            |               |       |      |      |                  |                |                     |      |                                                                            |                               |
|    | T4        | Mini-Cand    | 150 44654 | <b>Q150MC</b>                 | 120        | 6             | CC-8  | 3    | 1.38 | 2000             | 2700           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted<br>4g, 8a, 9a, 9d, 10b, 10c, 12e       |                               |
|                                                                                   |           |              |           | <b>43694 Q150CL/MC</b>        | 120        | 6             | CC-8  | 3    | 1.38 | 2000             | 2800           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear<br>4g, 8a, 9a, 9d, 10b, 10c, 12e         |                               |
|                                                                                   |           |              |           | <b>19386 Q150CL/MC/CD 5PK</b> | 120        | 25            | CC-8  | 3    | 1.38 | 2000             | 2800           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear, Carded<br>4g, 8a, 9a, 9d, 10b, 10c, 12e |                               |
|    | D C Bay   | 150          | 44653     | <b>Q150DC</b>                 | 120        | 6             | CC-8  | 2.5  | 1.38 | 2000             | 2700           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted<br>4g, 8a, 9a, 9d, 10b, 10c, 12e       |                               |
|                                                                                   |           |              |           | <b>43693 Q150CL/DC</b>        | 120        | 6             | CC-8  | 2.5  | 1.38 | 2000             | 2800           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear<br>4g, 8a, 9a, 9d, 10b, 10c, 12e         |                               |
|                                                                                   |           |              |           | <b>44384 Q150CL/DC/2V</b>     | 120        | 6             | CC-2V | 2.44 | 1.38 | 1000             | 2800           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear<br>4g, 8a, 9a, 9d, 10b, 10c, 12e         |                               |
|    | T4        | 2-Pin PreFoc | 200 40702 | <b>Q200T4/CL</b>              |            | 12            | CC-6  | 2.5  | 1.53 | 500              | 4500           |                     |      | 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12c                  | Clear, Airport, Base Down     |
|                                                                                   |           | 2-Pin GZ9.5  | 235 11548 | <b>Q235T4/3</b>               | 33         | 12            | CC-6  | 2.63 | 1.53 | 150              | 6000           |                     |      | 2a, 2j, 4a, 4c, 4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c                           | Frosted, Instrument, Prefocus |
|    | T2.5      | R7s          | 250 22865 | <b>Q250T3/CL-6PK</b>          | 120        | 144           | C-8   | 3.13 | 1.25 | 1500             | 4000           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a                      | Clear, Horizontal             |
|                                                                                   |           |              |           | <b>22121 Q250T3/CL/CD 5PK</b> | 120        | 60            | C-8   | 3.25 | 1.13 | 1500             | 4000           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a                      | Clear, Carded                 |
|  | T4        | Mini-Cand    | 250 43695 | <b>Q250MC</b>                 | 120        | 6             | CC-8  | 3.16 | 1.63 | 2000             | 4850           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted<br>4g, 8a, 9a, 9d, 10b, 10c, 12e       |                               |
|                                                                                   |           |              |           | <b>43696 Q250MC</b>           | 130        | 6             | CC-8  | 3.16 | 1.63 | 2000             | 4850           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted<br>4g, 8a, 9a, 9d, 10b, 10c, 12e       |                               |
|                                                                                   |           |              |           | <b>43699 Q250CL/MC</b>        | 120        | 6             | CC-8  | 3.16 | 1.63 | 2000             | 5000           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear<br>4g, 8a, 9a, 9d, 10b, 10c, 12e         |                               |
|                                                                                   |           |              |           | <b>19387 Q250CL/MC/CD 5PK</b> | 120        | 25            | CC-8  | 3.16 | 1.63 | 2000             | 5000           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear, Carded<br>4g, 8a, 9a, 9d, 10b, 10c, 12e |                               |
|                                                                                   |           |              |           | <b>43700 Q250CL/MC</b>        | 130        | 6             | CC-8  | 3.16 | 1.63 | 2000             | 5000           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear<br>4g, 8a, 9a, 9d, 10b, 10c, 12e         |                               |
|  | T4        | D C Bay      | 250 43701 | <b>Q250DC</b>                 | 120        | 6             | CC-8  | 3    | 1.63 | 2000             | 4850           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted<br>4g, 8a, 9a, 9d, 10b, 10c, 12e       |                               |
|                                                                                   |           |              |           | <b>43702 Q250DC</b>           | 130        | 6             | CC-8  | 3    | 1.63 | 2000             | 4850           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted<br>4g, 8a, 9a, 9d, 10b, 10c, 12e       |                               |
|                                                                                   |           |              |           | <b>43697 Q250CL/DC</b>        | 120        | 6             | CC-8  | 3    | 1.63 | 2000             | 5000           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear<br>4g, 8a, 9a, 9d, 10b, 10c, 12e         |                               |
|                                                                                   |           |              |           | <b>43698 Q250CL/DC</b>        | 130        | 6             | CC-8  | 3    | 1.63 | 2000             | 5000           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear<br>4g, 8a, 9a, 9d, 10b, 10c, 12e         |                               |
|  | T2.5      | R7s          | 300 15535 | <b>Q300T3/HD/2CD</b>          | 120        | 5             | C-8   | 4.68 | 2.25 | 2000             | 5950           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a                  |                               |
|                                                                                   |           |              |           | <b>43704 Q300T3-6PK</b>       | 120        | 144           | C-8   | 4.69 | 2.25 | 2000             | 5900           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a                  | Frosted, Horizontal           |
|                                                                                   |           |              |           | <b>43703 Q300T3/CL-6PK</b>    | 120        | 144           | C-8   | 4.69 | 2.25 | 2000             | 5950           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a                  | Clear, Horizontal             |
|                                                                                   |           |              |           | <b>19379 Q300T3/CL/CD 5PK</b> | 120        | 60            | C-8   | 4.69 | 2.25 | 2000             | 5950           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a                  | Clear, Horizontal, Carded     |
|                                                                                   |           |              |           | <b>27447 Q300T3CL/CD2-5PK</b> | 120        | 60            | C-8   | 4.69 | 2.25 | 2000             | 5950           | 2950                |      | 1a, 2a, 2j, 4a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a                  | Clear, Horizontal, Carded     |
|  | T4        | R7s          | 300 43705 | <b>Q300T4/CL</b>              | 120        | 12            | CC-8  | 3.13 | 2.25 | 2000             | 5650           | 2900                |      | 1a, 2a, 2j, 4a, 4c, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 11a                      | Clear                         |

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| Bulb Shape                                                                                                                                                                | Base Type | Order Watts    | Code       | Description            | Case Volts | Filament Qty. | Type | MOL   | LCL  | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP   | Footnotes                                                                                                                     | Additional Information          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|------------|------------------------|------------|---------------|------|-------|------|------------------|----------------|---------------------|--------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>QUARTZLINE® (CONTINUED)</b>                                                                                                                                            |           |                |            |                        |            |               |      |       |      |                  |                |                     |        |                                                                                                                               |                                 |
| <b>HALOGEN (CONTINUED)</b>                                                                                                                                                |           |                |            |                        |            |               |      |       |      |                  |                |                     |        |                                                                                                                               |                                 |
|                                                                                           | T4        | Mini-Cand      | 400 43706  | Q400MC                 | 120        | 6             | CC-8 | 3.62  | 2    | 2000             | 7850           | 2950                |        | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted<br>4g, 8a, 9a, 9d, 10b, 10c, 12e                                                          |                                 |
|                                                                                                                                                                           |           |                |            | 43707 Q400CL/MC        | 120        | 6             | CC-8 | 3.62  | 2    | 2000             | 8250           | 2950                |        | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear<br>4g, 8a, 9a, 9d, 10b, 10c, 12e                                                            |                                 |
|                                                                                           | T2.5      | R7s            | 500 15537  | Q500T3/HD/2CD          | 120        | 5             | C-8  | 4.68  | 2.25 | 2000             | 11100          | 2950                |        | 1a, 2a, 2j, 2k, 4a, 4c, 4d,<br>4e, 4f, 4g, 8a, 9a, 9d, 10b,<br>10c, 12b                                                       |                                 |
|                                                                                                                                                                           |           |                |            | 23731 Q500T3/CL        | 120        | 12            | C-8  | 4.69  | 2.25 | 2000             | 11100          | 3000                |        | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal<br>4e, 4f, 4g, 8a, 9a, 9d, 10b,<br>10c, 12b                                     |                                 |
|                                                                                                                                                                           |           |                |            | 23733 Q500T3/CL        | 130        | 12            | C-8  | 4.69  | 2.25 | 2000             | 10550          | 3000                |        | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal<br>4e, 4f, 4g, 8a, 9a, 9d, 10b,<br>10c, 12b                                     |                                 |
|                                                                                                                                                                           |           |                |            | 23744 Q500T3/CL/6-12PK | 120        | 144           | C-8  | 4.69  | 2.25 | 1500             | 10950          | 3000                |        | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, 6 Filament<br>4e, 4f, 4g, 8a, 9a, 9d,, Support, Rough<br>10b, 10c, 12b Service, Horizontal |                                 |
|                                                                                                                                                                           |           |                |            | 19382 Q500T3/CL/CD 5PK | 120        | 60            | C-8  | 4.69  | 2.25 | 2000             | 11100          | 3000                |        | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal,<br>4e, 4f, 4g, 8a, 9a, 9d, Carded<br>10b, 10c, 12b                             |                                 |
|                                                                                                                                                                           |           |                |            | 27448 Q500T3CL/CD2-5PK | 120        | 60            | C-8  | 4.69  | 2.25 | 2000             | 11100          | 3000                |        | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal,<br>4e, 4f, 4g, 8a, 9a, 9d, Carded<br>10b, 10c, 12b                             |                                 |
|                                                                                        | T4        | D C Bay        | 500 43709  | Q500DC                 | 120        | 6             | CC-8 | 3.44  | 2.13 | 2000             | 10100          | 2950                |        | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Frosted<br>4g, 8a, 9a, 9d, 10b, 10c, 12e                                                          |                                 |
|                                                                                                                                                                           |           |                |            | 43710 Q500CL/DC        | 120        | 6             | CC-8 | 3.44  | 2.13 | 2000             | 10450          | 2950                |        | 1a, 2a, 2j, 4a, 4c, 4e, 4f, Clear<br>4g, 8a, 9a, 9d, 10b, 10c, 12e                                                            |                                 |
|                                                                                         | T8        | Spec 1" Ribbon | 500 39071  | Q500T8/1CL             |            | 20            | CC-8 | 4.25  | 2.5  | 500              | 13400          | 3200                |        | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Airport,<br>4e, 4f, 4g, 8a, 9a, 9d, Special bulb<br>10b, 10c, 12b                          |                                 |
|                                                                                                                                                                           |           |                | 500 43494  | Q500PAR56NSP           | 120        | 6             | CC-6 | 5     |      | 4000             | 8000           | 2950                | 96000  | 1a, 2a, 2j, 4b, 4c, 4f, 4g, Narrow Spot<br>7a, 9b, 10c                                                                        |                                 |
|                                                                                                                                                                           |           |                |            | 43495 Q500PAR56MFL     | 120        | 6             | CC-6 | 5     |      | 4000             | 8000           | 2950                | 43000  | 1a, 2a, 2j, 4b, 4c, 4f, 4g, Medium Flood<br>7a, 9b, 10c                                                                       |                                 |
|                                                                                        | PAR56     | Mog End Pr     |            | 43496 Q500PAR56WFL     | 120        | 6             | CC-6 | 5     |      | 4000             | 8000           | 2950                | 19000  | 1a, 2a, 2j, 4b, 4c, 4f, 4g, Wide Flood<br>7a, 9b, 10c                                                                         |                                 |
|                                                                                                                                                                           |           |                | 1000 43711 | Q1000T3/CL-6PK         | 230        | 144           | C-8  | 10.06 | 6.13 | 2000             | 21500          | 3050                |        | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal<br>4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b                                        |                                 |
|                                                                                                                                                                           |           |                |            | 43712 Q1000T3/CL-6PK   | 240        | 144           | C-8  | 10.06 | 6.44 | 2000             | 21500          | 3050                |        | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal<br>4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b                                        |                                 |
| <br> | T6        | R7s            | 1000 23800 | Q1000T6/CL             | 120        | 6             | CC-8 | 5.63  | 1    | 2000             | 23400          | 3200                |        | 1a, 2a, 2j, 4a, 4c, 4e, Clear<br>4f, 4g, 8a, 9a, 9d, 10b, 10c                                                                 |                                 |
|                                                                                                                                                                           |           |                | 1000 41734 | Q1000T20BP             | 120        | 6             | CC-8 | 9.5   | 4    | 3000             | 22400          | 3050                |        | 12c                                                                                                                           | Clear, Lighthouse,<br>Base Down |
|                                                                                                                                                                           |           |                | 1000 43497 | Q1000PAR64NSP          | 120        | 6             | CC-6 | 6     |      | 4000             | 19400          | 3000                | 200000 | 1a, 2a, 2j, 4b, 4c, 4f, Narrow Spot<br>4g, 7a, 9b, 10c                                                                        |                                 |
|                                                                                                                                                                           |           |                |            | 43498 Q1000PAR64MFL    | 120        | 6             | CC-6 | 6     |      | 4000             | 19400          | 3000                | 80000  | 1a, 2a, 2j, 4b, 4c, 4f, Medium Flood<br>4g, 7a, 9b, 10c                                                                       |                                 |
|                                                                                                                                                                           |           |                |            | 43499 Q1000PAR64/WFL   | 120        | 6             | CC-6 | 6     |      | 4000             | 19400          | 3000                | 33000  | 1a, 2a, 2j, 4b, 4c, 4f, Wide Flood<br>4g, 7a, 9b, 10c                                                                         |                                 |



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| Bulb Shape                     | Base Type      | Order Watts | Code  | Description      | Case Volts | Filament Qty. | Type   | MOL   | LCL  | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP   | Footnotes                                                                                                | Additional Information |
|--------------------------------|----------------|-------------|-------|------------------|------------|---------------|--------|-------|------|------------------|----------------|---------------------|--------|----------------------------------------------------------------------------------------------------------|------------------------|
| <b>QUARTZLINE® (CONTINUED)</b> |                |             |       |                  |            |               |        |       |      |                  |                |                     |        |                                                                                                          |                        |
| <b>HALOGEN (CONTINUED)</b>     |                |             |       |                  |            |               |        |       |      |                  |                |                     |        |                                                                                                          |                        |
| T3                             | R7s            | 1500        | 23828 | Q1500T3/CL-12PK  | 208        | 144           | C-8    | 10.06 | 6.25 | 2000             | 35800          | 3050                |        | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal<br>4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b                   |                        |
|                                |                |             | 23826 | Q1500T3/CL-12PK  | 220        | 144           | C-8    | 10.06 | 6.81 | 2000             | 35800          | 3050                |        | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal<br>4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b                   |                        |
|                                |                |             | 23830 | Q1500T3/CL       | 240        | 12            | C-8    | 10.06 | 6.31 | 2000             | 35800          | 3050                |        | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal<br>4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b                   |                        |
|                                |                |             | 23832 | Q1500T3/CL       | 277        | 12            | C-8    | 10.06 | 6.25 | 2000             | 34400          | 3050                |        | 1a, 2a, 2j, 2k, 4a, 4c, 4d, Clear, Horizontal<br>4e, 4f, 4g, 8a, 9a, 9d, 10b, 10c, 12b                   |                        |
|                                | Wire Lead      | 6000        | 23843 | Q6M/T3/CL/HT     | 480        | 12            | C-8    | 11.94 | 9.75 | 100              |                | 3250                |        | 1a, 2a, 2b, 4c, 4d, 4e, 4f, Clear, Infrared, High<br>4g, 8a, 9a, 9d, 10b, Temp, Constr.<br>10c, 12b, 12e |                        |
|                                | Slv            | 6600        | 13511 | QH6600T3/CL/HT   | 480        | 12            | C-8    | 11.94 | 9.75 | 150              |                |                     |        | 1a, 2a, 2b, 4c, 4d, 4e, 4f, Clear, Infrared,<br>4g, 8a, 9a, 9d, 10b, Horizontal<br>10c, 12b, 12e         |                        |
| <b>AIRPORT</b>                 |                |             |       |                  |            |               |        |       |      |                  |                |                     |        |                                                                                                          |                        |
| T2.5                           | Special        | 45          | 23847 | Q6 6A/T2 1/2/1CL |            |               | C-8    | 1.75  |      | 1000             | 710            |                     |        | 2a, 2j, 4a, 4c, 4e, 4f, Clear, Airport<br>4g, 8a, 9a, 9d, 10b, 10c                                       |                        |
| T4                             | PK30d          | 100         | 80584 | Q6.6A100PK30d-m  |            |               | CBAR-6 | 2.0   | 0.79 | 1000             | 2700           |                     |        | 2a, 2j, 4a, 4c, 4e, 4f, Airport, Male Spade<br>4g, 8a, 9a, 9d, 10b, 10c                                  |                        |
| T5                             | PK30d          | 100         | 80588 | Q6.6A100PK30d-f  |            |               | CBAR-6 | 2.0   | 0.79 | 1000             | 2700           |                     |        | 2a, 2j, 4a, 4c, 4e, 4f, Airport,<br>4g, 8a, 9a, 9d, 10b, 10c Female Spade                                |                        |
| T6                             | PK30d          | 150         | 80585 | Q6.6A150PK30d-m  |            |               | CBAR-6 | 2.0   | 0.79 | 1000             | 3600           |                     |        | 2a, 2j, 4a, 4c, 4e, 4f, Airport, Male Spade<br>4g, 8a, 9a, 9d, 10b, 10c                                  |                        |
| T7                             | PK30d          | 150         | 80589 | Q6.6A150PK30d-f  |            |               | CBAR-6 | 2.0   | 0.79 | 1000             | 3600           |                     |        | 2a, 2j, 4a, 4c, 4e, 4f, Airport,<br>4g, 8a, 9a, 9d, 10b, 10c Female Spade                                |                        |
| T8                             | PK30d          | 200         | 80586 | Q6.6A200PK30d-m  |            |               | CC-6   | 2.3   | 0.79 | 1000             | 4800           |                     |        | 2a, 2j, 4a, 4c, 4e, 4f, Airport, Male Spade<br>4g, 8a, 9a, 9d, 10b, 10c                                  |                        |
| T9                             | PK30d          | 200         | 80590 | Q6.6A200PK30d-f  |            |               | CC-6   | 2.3   | 0.79 | 1000             | 4800           |                     |        | 2a, 2j, 4a, 4c, 4e, 4f, Airport,<br>4g, 8a, 9a, 9d, 10b, 10c Female Spade                                |                        |
| T4                             | Spec 1" Ribbon | 200         | 23857 | Q6.6A/T4/5CL     |            |               | CC-8   | 3     |      | 500              | 5000           |                     |        | 2a, 2j, 4a, 4c, 4e, 4f, Clear, Airport<br>4g, 8a, 9a, 9d, 10b, 10c                                       |                        |
|                                | D C Bay        | 200         | 23860 | Q6.6AT4/DCR      |            |               | CC-6   | 2.5   | 1.06 | 500              | 5150           |                     |        | 2a, 2j, 4a, 4c, 4e, Clear, Airport,<br>4f, 4g, 8a, 9a, 9d, 10b, Ringed<br>10c, 12e                       |                        |
| PAR56                          | Scrw Term      | 200         | 33279 | Q6.6A PAR56/3    |            |               | CC-6   | 4.5   |      | 1000             |                |                     | 200000 | 2a, 2j, 4b, 4c, 4d, 4f, 4g, PAR, Airport, BDTH<br>7a, 9b, 10c                                            |                        |
| PAR56                          | Mog End Pr     | 200         | 38271 | Q6.6A/PAR56/2    |            |               | CC-6   | 5     |      | 1000             |                |                     | 16000  | 2a, 2j, 4b, 4c, 4d, 4f, 4g, PAR, Airport, BDTH<br>7a, 9b, 10c                                            |                        |
|                                |                |             | 18309 | Q6.6A/PAR56/4    |            |               | CC-6   | 5     |      | 600              |                |                     |        | 2a, 2j, 4b, 4c, 4d, 4f, 4g, PAR, Airport,<br>7a, 9b, 10c Prismatic Lens,<br>BDTH                         |                        |
| PAR64                          | Mog End Pr     | 200         | 13224 | Q6.6A/PAR 64/2P  |            |               | CC-6   | 4.5   |      | 2000             |                |                     |        | 2a, 2j, 4b, 4c, 4d, 4f, 4g, PAR, Airport, BDTH<br>7a, 9b, 10c                                            |                        |
| PAR56                          | Scrw Term      | 300         | 32861 | Q20A/PAR56/2     |            |               | CC-6   | 4.5   |      | 500              |                |                     | 200000 | 2a, 2j, 4b, 4c, 4f, 4g, PAR, Airport, Burn<br>7a, 9b, 10c Position: Any                                  |                        |
|                                | Mog End Pr     | 300         | 15482 | Q20A/PAR56/C     |            |               | CC-6   | 5     |      | 500              |                |                     |        | 2a, 2j, 4c, 4f, 4g, 7a, PAR, Airport,<br>9b, 10c Teflon® Coated,<br>Burn Position: Any                   |                        |
| PAR64                          | Mog End Pr     | 300         | 13223 | Q6.6A/PAR 64/3P  |            |               | CC-6   | 4.5   |      | 2000             |                |                     |        | 2a, 2j, 4b, 4c, 4d, 4f, PAR, Airport, BDTH<br>4g, 7a, 9b, 10c                                            |                        |
| PAR56                          | Scrw Term      | 499         | 23863 | Q20A/PAR56/3     |            |               | CC-6   | 4.5   |      | 500              |                |                     | 330000 | 2a, 2j, 4b, 4c, 4d, 4f, PAR, Airport, BDTH<br>4g, 7a, 9b, 10c                                            |                        |
|                                | Mog End Pr     | 500         | 15485 | Q20A/PAR56/1/C   |            |               | CC-6   | 5     |      | 500              |                |                     |        | 2a, 2j, 4c, 4f, 4g, 7a, PAR, Airport,<br>9b, 10c Teflon® Coated,<br>Burn Position: Any                   |                        |



| Bulb Shape                                                                          | Base Type | Watts | Order Code | Description           | Case Volts | Filament Qty. | Type | MOL   | LCL   | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes                                                                                                                   | Additional Information |
|-------------------------------------------------------------------------------------|-----------|-------|------------|-----------------------|------------|---------------|------|-------|-------|------------------|----------------|---------------------|------|-----------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>TUBULAR QUARTZ HEAT</b>                                                          |           |       |            |                       |            |               |      |       |       |                  |                |                     |      |                                                                                                                             |                        |
|     | Slv       | 300   | 39019      | QH300T3/CL            | 120        | 12            | C-8  | 8.47  | 4.19  | 5000             |                | 2400                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared<br>4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e                                                  |                        |
|                                                                                     |           | 375   | 21337      | QH375T3/CL            |            | 12            | C-8  | 8.81  | 5.06  | 5000             |                | 2400                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared<br>4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e                                                  |                        |
|    | R7s       | 375   | 38893      | QH375T3/CL/7          | 120        | 12            | C-8  | 8.69  | 5.06  | 5000             |                | 2400                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared<br>4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e                                                  |                        |
|                                                                                     |           | 500   | 21787      | QH500T3/CL/7          | 120        | 12            | C-8  | 8.69  | 4.81  | 5000             |                | 2400                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared<br>4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e                                                  |                        |
|     | Slv       | 500   | 21788      | QH500T3/CL            | 120        | 12            | C-8  | 8.81  | 4.81  | 5000             |                | 2400                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear<br>4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e                                           |                        |
|                                                                                     |           | 1000  | 22355      | QH1000T3/CL           | 210        | 12            | C-8  | 13.81 | 10    | 5000             |                | 2400                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared<br>4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e                                                  |                        |
|                                                                                     |           |       |            | 22357 QH1000T3/CL     | 240        | 12            | C-8  | 13.81 | 10    | 5000             |                | 2400                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared<br>4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e                                                  |                        |
|                                                                                     |           |       |            | 22358 QH1000T3/CL/1   | 240        | 12            | C-8  | 11.88 | 10    | 5000             |                | 2400                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear,<br>4f, 4g, 9a, 9d, 10b, 10c, Horizontal<br>12b, 12e                            |                        |
|                                                                                     |           |       |            | 22365 QH1000T3/2CL/HT | 240        | 12            | C-8  | 13.81 | 10    | 5000             |                | 2400                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High<br>4f, 4g, 9a, 9d, 10b, 10c, Temp, Constr.,<br>12b, 12e Horizontal        |                        |
|                                                                                     |           | 1200  | 22531      | QH1200T3/CL           | 144        | 12            | C-8  | 8.81  | 6.13  | 5000             |                | 2450                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear,<br>4f, 4g, 9a, 9d, 10b, 10c, Horizontal<br>12b, 12e                            |                        |
|                                                                                     |           |       |            | 22532 QH1200T3/CL/HT  | 144        | 12            | C-8  | 8.81  | 6.13  | 5000             |                | 2450                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High<br>4f, 4g, 9a, 9d, 10b, 10c, Temp, Constr.,<br>12b, 12e Horizontal        |                        |
|                                                                                     |           | 1600  | 22686      | QH1600T3/CL           | 210        | 12            | C-8  | 19.81 | 15.88 | 5000             |                | 2350                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Horizontal<br>4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e                                      |                        |
|                                                                                     |           |       |            | 22688 QH1600T3/CL     | 240        | 12            | C-8  | 19.81 | 15.88 | 5000             |                | 2400                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear,<br>4f, 4g, 9a, 9d, 10b, 10c, Horizontal<br>12b, 12e                            |                        |
|                                                                                     |           |       |            | 22695 QH1600T3/CL     | 277        | 12            | C-8  | 19.81 | 15.88 | 5000             |                | 2400                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Horizontal<br>4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e                                      |                        |
|  | R7s       | 1600  | 22691      | QH1600T3/CL/7         | 240        | 12            | C-8  | 19.63 | 15.88 | 5000             |                | 2400                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Horizontal<br>4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e                                      |                        |
|                                                                                     |           |       |            | 22699 QH1600T3/CL/7   | 210        | 12            | C-8  | 19.63 | 15.88 | 5000             |                | 2350                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Horizontal<br>4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e                                      |                        |
|  | CER       | 2000  | 12716      | QH2MT3/CL/HT/R        | 230        | 12            | C-8  |       | 11.06 | 5000             |                | 2450                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High<br>4f, 4g, 9a, 9d, 10b, 10c, Temp, Horizontal,<br>12b, 12e Reflector 170° |                        |
|  | Slv       | 2000  | 15551      | QH2MT3/1CL/HT/VB      | 240        | 12            | C-8  | 11.94 | 9.69  | 500              |                | 2450                |      | 1a, 2a, 2b, 3a, 4c, 4d, Infrared, Clear, High<br>4e, 4f, 4g, 9a, 9d, 10b, Temp, Constr.,<br>10c, 12e Universal              |                        |
|                                                                                     |           |       |            | 18668 QH2MT3/CL/VB    | 230        | 12            | C-8  | 13.81 | 11.06 | 5000             |                | 2450                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear,<br>4f, 4g, 9a, 9d, 10b, 10c, Universal<br>12b, 12e                             |                        |
|                                                                                     |           |       |            | 22789 QH2M/T3/1CL/HT  | 240        | 12            | C-8  | 11.94 | 9.69  | 5000             |                | 2450                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High<br>4f, 4g, 9a, 9d, 10b, 10c, Temp, Constr.<br>12b, 12e                    |                        |
|                                                                                     |           |       |            | 22790 QH2M/T3/CL/HT   | 225        | 12            | C-8  | 13.81 | 10    | 5000             |                | 2450                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High<br>4f, 4g, 9a, 9d, 10b, 10c, Temp, Constr.,<br>12b, 12e Horizontal        |                        |
|  | R7s       | 2500  | 22837      | QH2500T3/CL/7         | 460        | 12            | C-8  | 28.63 | 24.88 | 5000             |                | 2400                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear,<br>4f, 4g, 9a, 9d, 10b, 10c, Horizontal<br>12b, 12e                            |                        |



# Halogen Lamps

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| Bulb Shape                                                                         | Base Type   | Order Watts | Code  | Description      | Case Volts | Filament Qty. | Type | MOL   | LCL   | Rated Life (hrs) | Lumens Initial | Initial Color Temp. | CBCP | Footnotes                                                                                           | Additional Information      |
|------------------------------------------------------------------------------------|-------------|-------------|-------|------------------|------------|---------------|------|-------|-------|------------------|----------------|---------------------|------|-----------------------------------------------------------------------------------------------------|-----------------------------|
| <b>TUBULAR QUARTZ HEAT (CONTINUED)</b>                                             |             |             |       |                  |            |               |      |       |       |                  |                |                     |      |                                                                                                     |                             |
| T3                                                                                 | Slv         | 2500        | 22838 | QH2500T3/CL      | 480        | 12            | C-8  | 28.81 | 24.88 | 5000             |                | 2400                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal 12b, 12e          |                             |
|    |             |             |       |                  |            |               |      |       |       |                  |                |                     |      |                                                                                                     |                             |
|                                                                                    | CER         | 2500        | 28126 | QH2.5MT3/CL/HT/R | 400        | 12            | C-8  | 15.1  | 12.3  | 5000             |                | 2450                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, High Temp, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal, 12b, 12e     | Reflector 170°              |
|    |             |             |       |                  |            |               |      |       |       |                  |                |                     |      |                                                                                                     |                             |
|                                                                                    | M4 Lug Term | 2500        | 28129 | QH2500T3/VB-10PK | 240        | 10            | C-8  | 13.8  | 11    | 5000             |                | 2450                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Universal 12b, 12e           |                             |
|    |             |             |       |                  |            |               |      |       |       |                  |                |                     |      |                                                                                                     |                             |
|                                                                                    | CER         | 3000        | 28127 | QH3MT3/CL/HT/R   | 400        | 12            | C-8  | 15.1  | 12.3  | 5000             |                | 2450                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, High Temp, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal, 12b, 12e     | Reflector 170°              |
|    |             |             |       |                  |            |               |      |       |       |                  |                |                     |      |                                                                                                     |                             |
|                                                                                    | M4 Lug Term | 3000        | 28130 | QH3MT3/VB-10PK   | 240        | 10            | C-8  | 13.8  | 11    | 5000             |                | 2450                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, 4f, 4g, 9a, 9d, 10b, 10c, Universal 12b, 12e           |                             |
|    |             |             |       |                  |            |               |      |       |       |                  |                |                     |      |                                                                                                     |                             |
|                                                                                    |             | 3650        | 10872 | QH3650T3/CL/5    | 480        | 6             | C-8  | 41.63 | 38    | 5000             |                | 2500                |      | 1a, 2a, 2b, 3a, 4f, 5a, 5b, 9a, 9d, 10c, 12b, 12e                                                   | Infrared, Horizontal        |
|                                                                                    | Slv         | 3800        | 22875 | QH3800T3/CL      | 575        | 6             | C-8  | 41.81 | 38    | 5000             |                | 2500                |      | 1a, 2a, 2b, 3a, 4f, 5a, 5b, 9a, 9d, 10c, 12b, 12e                                                   | Infrared, Horizontal        |
|    |             |             |       |                  |            |               |      |       |       |                  |                |                     |      |                                                                                                     |                             |
|                                                                                    |             |             | 22878 | QH3800T3/CL/VB   | 575        | 6             | C-8  | 41.81 | 38    | 5000             |                | 2500                |      | 1a, 2a, 2b, 3a, 4f, 5a, 5b, 9a, 9d, 10c, 12e                                                        | Infrared, Clear, Universal  |
|                                                                                    |             | 5000        | 22900 | QH5M/T3/1CL/HT   | 600        | 12            | C-8  | 28.81 | 25.25 | 5000             |                | 2500                |      | 1a, 2a, 2b, 3a, 4c, 4d, 4e, Infrared, Clear, High 4f, 4g, 9a, 9d, 10b, 10c, Temp, Constr., 12b, 12e | Horizontal                  |
|  |             |             |       |                  |            |               |      |       |       |                  |                |                     |      |                                                                                                     |                             |
|                                                                                    | M4 Lug Term | 6000        | 29889 | QH6000T3/HT-ASM  | 480        | 12            | C-8  | 14.2  | 11.4  |                  |                |                     |      | 1a, 2a, 2b, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal, 12b, 12e                              | Infrared, Clear, High Temp. |
|  |             |             |       |                  |            |               |      |       |       |                  |                |                     |      |                                                                                                     |                             |
|                                                                                    | Wire Lead   | 6000        | 23843 | QH6MT3/CL/HT     | 480        | 12            | C-8  | 11.94 | 9.75  | 100              |                | 3250                |      | 1a, 2a, 2b, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal, 12b, 12e                              | Infrared, Clear, High Temp. |
|  |             |             |       |                  |            |               |      |       |       |                  |                |                     |      |                                                                                                     |                             |
|                                                                                    | M4 Lug Term | 6600        | 13511 | QH6600T3/CL/HT   | 480        | 12            | C-8  | 11.94 | 9.75  | 150              |                |                     |      | 1a, 2a, 2b, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, Horizontal, 12b, 12e                              | Infrared, Clear, High Temp. |



## GENERAL INFORMATION

### HALOGEN LAMP OPERATING PRECAUTIONS

The lamps listed in this catalog are filled to high internal gas pressures to maximize lamp efficacy (lumens per watt). Some general cautions are given below.

### HIGH OPERATING TEMPERATURES

Since operating temperatures are critical to the effective self-cleaning properties of halogen lamps, filament tube wall temperatures should not go below 482°F (250°C). Hot spots on the bulb wall itself can go as high as 1230°F (700°C) in normal operation.

Substantial heat is generated in all halogen lamps, so equipment design should make allowance for the dissipation of excessive heat. Certain lamps and extremely confined fixtures may require additional ventilation or heat sinking to ensure proper operation of the halogen cycle and to prevent damage to the fixture. It is a good practice to test the lamp in the operating environment early in the design cycle to ensure adequate performance. Precautions must be taken in the selection of materials for lampholders, reflectors and lamp housings because the 1230°F (700°C) bulb wall temperature is greater than the kindling temperature of many materials. Lamp base temperatures should not exceed 662°F (350°C) because, above that point, lead wires may deteriorate and the basing cement loosen, causing premature lamp failure.

### DISTRIBUTION OF SPECTRAL RADIATION

Halogen lamps offer large amounts of visible and infrared energy from a small light source, with about 90% of the energy in the infrared. Some halogen lamps can be used for special applications where small amounts of ultraviolet energy are required. The slight ultraviolet radiation that comes from unprotected sources could cause skin and eye irritation following extended direct exposure. Passing the light through ordinary glass or plastic provides adequate protection. The lenses of the PAR, TAL or Cover Glass Precise™ lamps provide this protection.

## OPERATING NOTES

- Turn power off and let lamp cool before removal to avoid potential burn and electrical shock during lamp replacement
- Do not use lamp if outer glass is scratched or broken because it may break during installation or later during operation
- Do not use lamp in close proximity to combustible materials or those adversely affected by drying or fading action because of heat radiation in the lamp beam
- Dispose of removed lamp with care such as placing in used lamp carton or other closed container

### COMPACT PAR LAMPS (PAR20/30)

- Use outdoors in enclosed fixtures or where protected from exposure to water

### QUARTZLINE® PAR (250W)

- Avoid use where subjected to exposure to moisture which may cause lamp to break or shatter
- Do not operate lamp over 110% rated voltage. Overvoltage operation increases pressure and tendency to break.
- Use this lamp only in fixtures designed for Q250PAR38 lamps

### QUARTZ HEAT LAMPS

GE standard quartz heat products are primarily pressurized halogen lamps. Many standard tungsten coil filaments have been converted to a deflection coil winding design that eliminates the need for filament supports through an integral coil/support construction. These changes will improve lamp life as well as keep the bulb wall cleaner during operation and throughout the life of the lamp.

In general, halogen lamps are more efficient than ordinary incandescent lamps. HIR™ lamps are the most efficient halogen lamps we offer. For each application, check life, lumens, wattage, beam spread and lamp dimensions to determine proper bulb selection.

GE has added a reflectorized heat lamp with a patented design that directs the infrared to a surface rather than in 360° angle.

### HALOGEN CAUTION NOTICE – GENERAL

Halogen lamps are constructed of a glass bulb with a pressurized internal filament tube that operates at high temperatures and could unexpectedly shatter. Should the outer bulb break, particles of extremely hot glass could be discharged into the fixture enclosure and/or surrounding environment, thereby creating a risk of personal injury or fire.

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### HALOGEN A-LINE (TB/H)

Caution: Cracked or broken bulbs that still light should be replaced immediately. The inner tube of the GE Halogen lamp is pressurized, operates at high temperature and could unexpectedly shatter with the possibility of property damage or personal injury. Avoid use in unstable table lamps, dispose of with care. To avoid burns, electricity should be switched off and the lamp allowed to cool for several minutes before removing from socket. Use outdoors only in enclosed fixtures or where protected from exposure to water.

### OPERATING NOTES – LOW VOLTAGE LAMPS

Low voltage tungsten-halogen lamps are sensitive to voltage variations. Even a small change in voltage can have a considerable impact on lamp life. Designers should match fixture transformer ratings to actual line voltages to ensure that the lamps operate at as close to 12 volts as possible.

Rapid cycling can also shorten lamp life, and designers should take advice from their GE Lighting representative before using these lamps in flashing or blinking applications.

The lamps may be dimmed by reducing voltage. However, this may cause the bulbs to blacken. If this occurs the lamp should be run at full voltage for fifteen minutes, thereby clearing the problem. Note that the nature of low voltage lighting systems requires the use of fluorescent-type dimmers. Lamp can be operated on AC or DC currents.



## WARNINGS AND CAUTION NOTICES

1

### ⚠ WARNING

#### Risk of electric shock

- a Turn power off before inspection, installation or removal
- b Turn power off if glass bulb is broken, even if bulb continues to light. Remove and dispose of lamp.
- c Do not open. No user serviceable parts inside.

2

### ⚠ WARNING

#### Risk of fire

- a Keep combustible materials away from lamp
- b Use in fixture rated for this product
- c Use in fixture rated for this product—see instructions
- d Operate base down to horizontal only
- e In table lamp use only with shade
- f Do not use in enclosed fixture or with lamp shade
- g Use in high intensity fixture rated for this product
- h Do not use as a night light
- i Burning position base down only
- j Use in enclosed fixture rated for this product
- k Fire Hazard! Do not use in Torchiere or other indoor residential fixtures

3

### ⚠ WARNING

#### Lamp emits IR radiation which may cause eye injury

- a Avoid exposure of eyes and skin to unshielded lamp

4

### ⚠ WARNING

#### Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- a Use eye protection when handling lamp
- b Avoid direct water/liquid contact
- c Use in enclosed fixture rated for this product
- d Operate lamp only in specified position
- e Do not touch glass with bare hands
- f Do not use lamp if outer glass is scratched or broken
- g Do not exceed 110% of rated voltage
- h Do not use where directly exposed to water or outdoors without an enclosed fixture
- i Do not exceed rated voltage
- j Do not use lamp if outer jacket is scratched or broken, even if bulb continues to light. Turn power off, remove and dispose.
- k Do not use in wet locations

5

### ⚠ WARNING

#### Unexpected lamp rupture may cause injury, fire, or property damage

- a Do not touch glass with bare hands
- b Operate lamp only in specified position
- c Use in enclosed fixture rated for this product
- d Do not use lamp if outer glass is scratched or broken
- e Avoid direct water, liquid or metal contact

6

### ⚠ WARNING

#### Risk of burn

- a Do not touch operating lamp

7

### ⚠ WARNING

#### A damaged lamp emits UV radiation which may cause eye/skin injury

- a Turn power off if glass bulb is broken. Remove and dispose of lamp.

8

### ⚠ WARNING

#### Lamp emits UV radiation which may cause eye/skin injury.

- a Avoid exposure of eyes and skin to unshielded lamp

9

### ⚠ CAUTION

#### Risk of burn

- a Allow lamp to cool before handling
- b Allow lamp/fixture to cool before handling
- c Do not touch operating lamp
- d Turn power off before installing lamp

10

### ⚠ CAUTION

#### Lamp may shatter and cause injury if broken

- a Wear safety glasses and gloves when handling lamp
- b Dispose of lamp in a closed container
- c Do not use lamp if outer glass is scratched or broken

11

### ⚠ CAUTION

#### Lamp emits UV radiation which may cause eye/skin irritation.

- a Minimize exposure

12

#### OP. INST.

- a Burning Position - Base up
- b Burning position - horizontal
- c Burn base down only
- d Burn base down to horizontal
- e Limit seal temp to 650°F. Maintain min bulb wall temp of 500°F for operation of halogen cycle



## HALOGEN LAMPS CROSS REFERENCE

| GE<br>Description     | Osram/Sylvania<br>Description       | Philips<br>Description |
|-----------------------|-------------------------------------|------------------------|
| ORDER THIS<br>GE LAMP | IF YOU CURRENTLY USE<br>THESE LAMPS |                        |
| HALOGEN PAR LAMPS     |                                     |                        |
| 60PAR16/H/SP10        | 60PAR16/CAP/NSP10                   | 60PAR16/HAL/NSP10      |
| 60PAR16/H/FL30        | 60PAR16/CAP/NFL30                   | 60PAR16/HAL/NFL27      |
| 75PAR16/H/SP10        | 75PAR16/CAP/NSP10                   | —                      |
| 75PAR16/H/FL30        | 75PAR16/CAP/NFL30                   | —                      |
| Q21EMR16/C/SP12       | —                                   | —                      |
| Q21EMR16/C/FL25       | —                                   | —                      |
| 50PAR20/H/SP10        | 50PAR20/CAP/SPL/NSP10               | 50PAR20/HAL/NSP9       |
| 50PAR20/H/FL25        | 50PAR20/CAP/SPL/NFL30               | 50PAR20/HAL/NFL30      |
| 50PAR30/H/SP10        | 50PAR30/CAP/SPL/NSP9                | 50PAR30S/HAL/NSP10     |
| 50PAR30/H/FL25        | 50PAR30/CAP/SPL/NFL25               | 50PAR30S/HAL/NFL30     |
| 50PAR30/H/FL35        | 50PAR30/CAP/SPL/FL40                | 50PAR30S/HAL/FL40      |
| 50PAR30L/H/SP10       | 50PAR30LN/CAP/SPL/NSP9              | 50PAR30L/HAL/NSP9      |
| 50PAR30L/H/FL40       | 52PAR30LN/CAP/SPL/NFL30             | 50PAR30L/HAL/NFL30     |
| 50PAR30L/H/WFL        | 50PAR30LN/CAP/SPL/WFL50             | 50PAR30L/HAL/WFL60     |
| 60PAR30/H/NSP9        | 60PAR30/CAP/SPL/NSP9                | 60PAR30S/HAL/NSP10     |
| 60PAR30/H/FL25        | 60PAR30/CAP/SPL/NFL25               | 60PAR30S/HAL/NFL30     |
| 60PAR30/H/FL35        | —                                   | 60PAR30S/HAL/NFL40     |
| 75PAR30/H/SP10        | 75PAR30/CAP/SPL/NSP9                | 75PAR30S/HAL/NSP10     |
| 75PAR30/H/FL25        | 75PAR30/CAP/SPL/NFL25               | 75PAR30S/HAL/NFL30     |
| 75PAR30/H/FL35        | 75PAR30/CAP/SPL/FL40                | 75PAR30S/HAL/FL40      |
| 75PAR30L/H/SP10       | 75PAR30LN/CAP/NSP9                  | 75PAR30L/HAL/NSP9      |
| 75PAR30L/H/FL25       | 75PAR30LN/CAP/NFL25                 | 75PAR30L/HAL/NFL30     |
| 75PAR30L/H/WFL        | 75PAR30LN/CAP/WFL40                 | 75PAR30L/HAL/FL40      |
| 35PAR36/H/SP5         | 36PAR36/CAP/VNSP5                   | —                      |
| 35PAR36/H/SP8         | 36PAR36/CAP/NSP13                   | —                      |
| 35PAR36/H/FL30        | 36PAR36/CAP/FL32                    | —                      |
| 35PAR36/H/WFL         | —                                   | —                      |
| 50PAR36/H/SP5         | 50PAR36/CAP/NSP6                    | —                      |
| 50PAR36/H/SP8         | —                                   | —                      |
| 50PAR36/H/FL30        | —                                   | —                      |
| 45PAR/H/SP10          | 45PAR/CAP/SPL/SP9                   | 45PAR38/HAL/SP12/LL    |
| 45PAR/H/FL25          | 45PAR/CAP/SPL/FL30                  | 45PAR38/HAL/FL28/LL    |
| 50PAR/H/SP10          | —                                   | —                      |
| 50PAR/H/FL25          | —                                   | —                      |
| 53PAR/H/SS/SP10       | —                                   | —                      |
| 53PAR/H/SS/FL25       | —                                   | —                      |
| 60PAR/H/SP10          | 60PAR/CAP/SPL/SP10                  | 60PAR38/HAL/NSP10/WLL  |
| 60PAR/H/FL25          | 60PAR/CAP/SPL/NSL25                 | 60PAR38/HAL/FL28/WLL   |
| 66PAR/H/SS/SP10       | —                                   | —                      |
| 66PAR/H/SS/FL25       | —                                   | —                      |
| 75PAR/H/NSP9          | 75PAR/CAP/SPLSP9                    | 75PAR38/HAL/SP10/WLL   |
| 75PAR/H/FL25          | 75PAR/CAP/SPL/FL30                  | 75PAR38/HAL/FL28/WLL   |
| 79PAR/H/SS/SP10       | —                                   | —                      |
| 79PAR/H/SS/FL25       | —                                   | —                      |
| 90PAR/H/SP10          | 90PAR/CAP/SPL/SP9                   | 90PAR38/HAL/SP12/LL    |
| 90PAR/H/FL25          | 90PAR/CAP/SPL/FL30                  | 90PAR38/HAL/FL28/LL    |

| GE<br>Description             | Osram/Sylvania<br>Description       | Philips<br>Description |
|-------------------------------|-------------------------------------|------------------------|
| ORDER THIS<br>GE LAMP         | IF YOU CURRENTLY USE<br>THESE LAMPS |                        |
| HALOGEN PAR LAMPS (CONTINUED) |                                     |                        |
| 90PAR/H/WFL                   | 90PAR/CAP/SPL/WFL50                 | 90PAR38/HAL/WFL60/WLL  |
| 100PAR/H/SP10                 | —                                   | —                      |
| 100PAR/H/FL25                 | —                                   | —                      |
| 120PAR/H/SP9                  | 120PAR/CAP/SPL/SP10                 | —                      |
| 120PAR/H/FL30                 | 120PAR/CAP/SPL/FL30                 | —                      |
| Q250PAR/SP10                  | 250PAR/CAP/SPL/SP10                 | —                      |
| Q250PAR/FL30                  | 250PAR/CAP/SPL/FL30                 | —                      |
| Q500PAR56NSP                  | 500PAR56QNSP                        | 500PAR56Q/NSP          |
| Q500PAR56MFL                  | 500PAR56QMFL                        | 500PAR56Q/MFL          |
| Q500PAR56WFL                  | 500PAR56QWFL                        | 500PAR56Q/WFL          |
| Q1000PAR64NSP                 | 1000PAR64QNSP                       | 1000PAR64Q/NSP         |
| Q1000PAR64MFL                 | 1000PAR64QMFL                       | 1000PAR64Q/MFL         |
| Q1000PAR64WFL                 | 1000PAR64QWFL                       | 1000PAR64Q/WFL         |
| HALOGEN HIR™ PAR LAMPS        |                                     |                        |
| 45PAR30/HIR/SP9XL             | —                                   | —                      |
| 45PAR30/HIR/FL25XL            | —                                   | —                      |
| 45PAR30/HIR/FL35XL            | —                                   | —                      |
| 50PAR30/HIR/SP9               | 50PAR30/CAP/IR/NSP9                 | 50PAR30S/IRC/NSP10     |
| 50PAR30/HIR/FL25              | 50PAR30/CAP/IR/NFL25                | 50PAR30S/IRC/NFL30     |
| 50PAR30/HIR/FL35              | 50PAR30/CAP/IR/FL40                 | 50PAR30S/IRC/FL40      |
| 45PAR/HIR/R/SP10              | —                                   | —                      |
| 45PAR/HIR/R/FL25              | —                                   | —                      |
| 45PAR/HIR/SP12XL              | —                                   | —                      |
| 45PAR/HIR/FL40XL              | —                                   | —                      |
| 50PAR/HIR/SP6                 | —                                   | —                      |
| 50PAR/HIR/SP9                 | 50PAR/CAP/IR/NSP9                   | 50PAR38/IRC/SP12       |
| 50PAR/HIR/FL25                | 50PAR/CAP/IR/NFL25                  | 50PAR38/IRC/FL25       |
| 50PAR/HIR/S/SP10              | —                                   | —                      |
| 50PAR/HIR/S/FL25              | —                                   | —                      |
| 55PAR/HIR/R/SP10              | —                                   | —                      |
| 55PAR/HIR/R/FL25              | —                                   | —                      |
| 55PAR/HIR/SP12XL              | —                                   | —                      |
| 55PAR/HIR/FL40XL              | —                                   | —                      |
| 60PAR/HIR/SP10                | 60PAR/CAP/IR/SP9                    | 60PAR38/IRC/SP12       |
| 60PAR/HIR/FL30                | 60PAR/CAP/IR/FL30                   | 60PAR38/IRC/FL25       |
| 60PAR/HIR/FL40                | —                                   | —                      |
| 60PAR/HIR/WFL                 | —                                   | 60PAR38/IRC/WFL        |
| 60PAR/HIR/S/SP10              | —                                   | —                      |
| 60PAR/HIR/S/FL25              | —                                   | —                      |
| 70PAR/HIR/SP10                | —                                   | —                      |
| 70PAR/HIR/FL25                | —                                   | —                      |
| 80PAR/HIR/SP10                | 80PAR/CAP/IR/SP10                   | —                      |
| 80PAR/HIR/SP12                | 80PAR/CAP/IR/SP12                   | —                      |
| 80PAR/HIR/FL25                | 80PAR/CAP/IR/FL25                   | —                      |
| 90PAR/HIR/R/SP10              | —                                   | —                      |
| 90PAR/HIR/R/FL25              | —                                   | —                      |



## HALOGEN LAMPS CROSS REFERENCE

| GE<br>Description                          | Osram/Sylvania<br>Description       | Philips<br>Description |
|--------------------------------------------|-------------------------------------|------------------------|
| ORDER THIS<br>GE LAMP                      | IF YOU CURRENTLY USE<br>THESE LAMPS |                        |
| HALOGEN HIR™ PAR LAMPS (CONTINUED)         |                                     |                        |
| 90PAR/HIR/SP12XL                           | —                                   | —                      |
| 90PAR/HIR/FL40XL                           | —                                   | —                      |
| 100PAR/HIR/SP10                            | 100PAR/CAP/IR/SP10                  | 100PAR38/IRC/SP10      |
| 100PAR/HIR/FL25                            | 100PAR/CAP/IR/NFL25                 | 100PAR38/IRC/FL25      |
| 100PAR/HIR/FL40                            | 100PAR/CAP/IR/FL40                  | 100PAR38/IRC/WFL       |
| HALOGEN MR11 LAMPS                         |                                     |                        |
| Q20MR11/SP15                               | 20MR11/SP10/FTB                     | 20MRC11/SP10           |
| Q20MR11/NFL30                              | 20MR11/FL35/FTD                     | 20MRC11/FL30           |
| Q35MR11/NSP20                              | 35MR11/SP10/FTE                     | —                      |
| Q35MR11/NFL30                              | 35MR11/FL40/FTH                     | —                      |
| HALOGEN STANDARD MR16 LAMPS                |                                     |                        |
| Q20MR16/SP                                 | 20MR16/NSP8/ESX                     | 20MRC16/SP10           |
| Q20MR16/FL                                 | 20MR16/FL40/BAB                     | 20MRC16/FL36           |
| Q50MR16/SP                                 | 50MR16/NSP12/EST                    | 50MRC16/SP10           |
| Q50MR16/FL                                 | 20MR16/FL40/EXN                     | 50MRC16/FL38           |
| HALOGEN CONSTANTCOLOR® PRECISE™ MR16 LAMPS |                                     |                        |
| Q20MR16/C/VNSP7                            | 20MR16/T/NSP10                      | 20MRC16/CC/SP10        |
| Q20MR16/C/NSP15                            | —                                   | 20MRC16/CC/NFL24       |
| Q20MR16/C/FL40                             | 20MR16/T/NFL40                      | 20MRC16/CC/FL38        |
| Q35MR16/C/SP20                             | 35MR16/T/NFL25                      | —                      |
| Q35MR16/C/FL40                             | 35MR16/T/FL40                       | —                      |
| Q42MR16/C/VNSP9                            | 50MR16/T/NSP10                      | —                      |
| Q50MR16/C/NSP15                            | —                                   | 50MRC16/CC/SP10        |
| Q50MR16/C/NFL25                            | 50MR16/T/NFL25                      | 50MRC16/CC/NFL24       |
| Q50MR16/C/NFL30                            | —                                   | —                      |
| Q50MR16/C/FL40                             | 50MR16/T/FL40                       | 50MRC16/CC/NFL38       |
| Q71MR16/C/NSP15                            | 65MR16/T/NSP10                      | —                      |
| Q71MR16/C/NFL25                            | 65MR16/T/NFL25                      | —                      |
| Q71MR16/C/FL40                             | 65MR16/T/FL40                       | —                      |
| HALOGEN HIR™ MR16 LAMPS                    |                                     |                        |
| Q37MR16/HIR/CG10                           | 37MR16/IR/NSP10C                    | 35MRC16/IRC/SP8        |
| Q37MR16/HIR/CG25                           | 37MR16/IR/NFL25C                    | 35MRC16/IRC/NFL24      |
| Q37MR16/HIR/CG40                           | 37MR16/IR/FL40C                     | 35MRC16/IRC/FL36       |
| Q50MR16/HIR/CG10                           | 50MR16/IR/NSP10C                    | 45MRC16/IRC/SP8        |
| Q50MR16/HIR/CG25                           | 50MR16/IR/NFL25C                    | 45MRC16/IRC/NFL24      |
| Q50MR16/HIR/CG40                           | 50MR16/IR/FL40C                     | 45MRC16/IRC/FL36       |

| <i>GE<br/>Description</i> | <i>Osram/Sylvania<br/>Description</i> | <i>Philips<br/>Description</i> |
|---------------------------|---------------------------------------|--------------------------------|
| ORDER THIS<br>GE LAMP     | IF YOU CURRENTLY USE<br>THESE LAMPS   |                                |
| HALOGEN BIPIN LOW VOLTAGE |                                       |                                |
| Q5T3/CL                   | 5T3Q/CL                               | 5W12V/Capsule                  |
| Q10T3/CL                  | 10T3Q/CL                              | 10W12V/Capsule                 |
| Q20T3/CL                  | 20T3Q/CL/AX                           | 20W12V/Capsule                 |
| Q35T3/CL                  | 35TQ/CL/AX                            | 35W12V/Capsule                 |
| Q50T4/CL                  | 50T4Q/CL                              | 50W12V/Capsule                 |
| Q75T4/CL                  | 75T4Q/CL/RP                           |                                |
| HALOGEN SINGLE-ENDED      |                                       |                                |
| Q100CL/DC                 | 100Q/CL/DC                            | 100Q/CL/DC                     |
| Q100CL/MC                 | 100Q/CL/MC                            | 100Q/CL                        |
| Q100DC                    | 100Q/DC                               | —                              |
| Q150CL/DC/2V              | 150Q/CL/DC/1                          | —                              |
| Q150CL/DC                 | 150Q/CL/DC                            | 150Q/CL/DC                     |
| Q150CL/MC                 | 150Q/CL/MC/2                          | 150Q/CL                        |
| Q150CL/MC/2V              | 150Q/CL/MC                            | —                              |
| Q150DC                    | 150Q/DC                               | 150Q/DC                        |
| Q150MC                    | 150Q/MC                               | 150Q                           |
| Q250CL/DC                 | 250Q/CL/DC                            | 250Q/CL/DC                     |
| Q250CL/MC                 | 250Q/CL/MC/2                          | 250Q/CL                        |
| Q250DC                    | 250Q/DC                               | —                              |
| Q250MC                    | 250Q/MC                               | —                              |
| HALOGEN DOUBLE-ENDED      |                                       |                                |
| Q100T3/CL/CD              | 100T3Q/CL                             | BC100T3Q/CL/TP                 |
| Q150T3/CL                 | 150T3Q/CL                             | BC100T3Q/CL/TP                 |
| Q300T3/CL                 | 300T3Q/CL                             | 300T3Q/P/CL                    |
| Q500T3/CL                 | 500T3Q/CL                             | 500T3Q/P/CL                    |



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[www.interlight.biz](http://www.interlight.biz)

## CONSTANTCOLOR® CMH® METAL HALIDE LAMPS

|                             |      |
|-----------------------------|------|
| MR16 .....                  | 3-9  |
| PAR .....                   | 3-9  |
| Elliptical .....            | 3-9  |
| Elliptical Open-Rated ..... | 3-9  |
| Single-Ended G12 .....      | 3-10 |
| Double-Ended TD .....       | 3-10 |
| GU6.5 .....                 | 3-10 |
| Mini's .....                | 3-10 |
| High-Watt CMH® SPXX .....   | 3-10 |
| CMH® Chromafit™ .....       | 3-11 |

## PULSEARC® MULTI-VAPOR® METAL HALIDE LAMPS ..... 3-11

## MULTI-VAPOR® METAL HALIDE LAMPS ..... 3-13

## HIGH OUTPUT AND XHO MULTI-VAPOR® METAL HALIDE LAMPS ..... 3-14

## SPORTSLIGHTING ..... 3-14

## PROTECTED MULTI-VAPOR® METAL HALIDE LAMPS..... 3-15

## CHROMAFIT™ MULTI-VAPOR® METAL HALIDE LAMPS (HPS RETROFIT LAMPS)..... 3-16

## I-LINE MULTI-VAPOR® METAL HALIDE LAMPS (MERCURY RETROFIT LAMPS) ..... 3-16

## SAF-T-GARD® SELF-EXTINGUISHING MULTI-VAPOR® LAMPS ..... 3-16

## ARCSTREAM® METAL HALIDE LAMPS ..... 3-16

## LUCALOX® HIGH PRESSURE SODIUM LAMPS ..... 3-17

## STANDBY LONGLIFE LUCALOX® LAMPS ..... 3-18

## ECOLUX® NC NON-CYCLING HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT) ..... 3-18

## ECOLUX® HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT) ..... 3-19

## SOX LOW PRESSURE SODIUM LAMPS..... 3-20

## MERCURY LAMPS..... 3-20

## SAF-T-GARD® MERCURY LAMPS ..... 3-21

## E-Z MERC® SELF-BALLASTED LAMPS (INCANDESCENT RETROFIT) ..... 3-21

## EXPORT LAMPS

|                                                                 |      |
|-----------------------------------------------------------------|------|
| Metal Halide .....                                              | 3-21 |
| Lucalox® High Pressure Sodium.....                              | 3-22 |
| E-Z Lux® Lucalox® High Pressure Sodium (Mercury Retrofit) ..... | 3-22 |
| Mercury .....                                                   | 3-22 |

## HORTICULTURAL LAMPS ..... 3-22

## CROSS REFERENCE..... 3-32

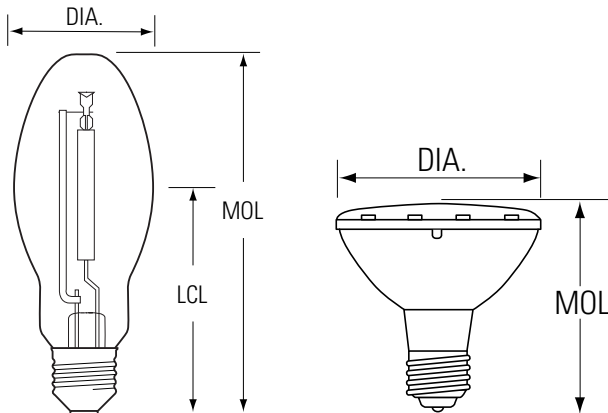


# High Intensity Discharge Lamps

Click below to order

Interlight Specialty Bulbs  
1-800-743-0005  
[www.interlight.biz](http://www.interlight.biz)

## BULB IDENTIFICATION



DIA: Diameter of bulb at widest point.

MOL: Maximum Overall Length including base or pins.

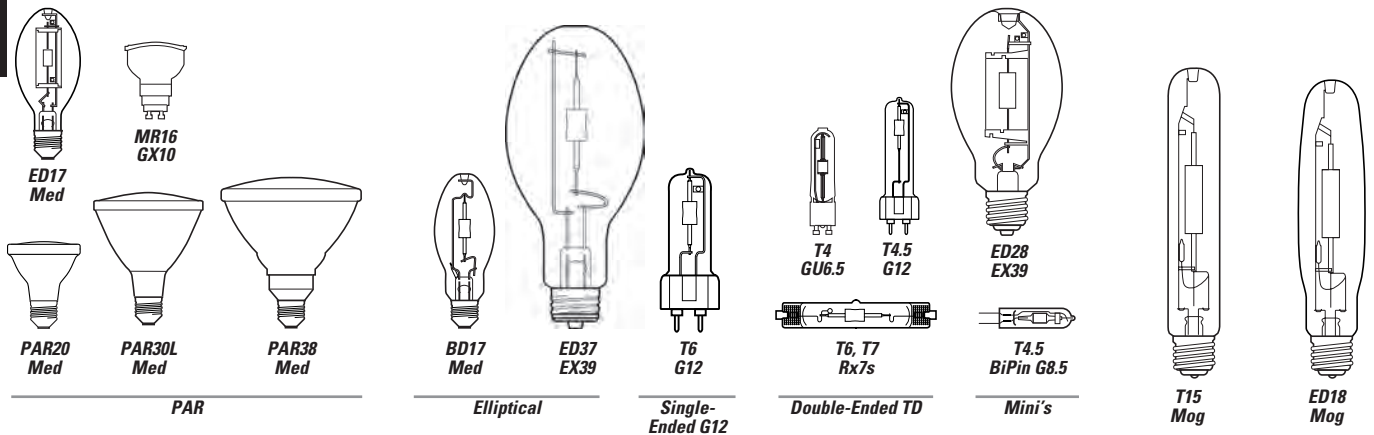
LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

Note: Lamp drawings are not drawn to scale.

Be sure to check size and dimension information when identifying each lamp.

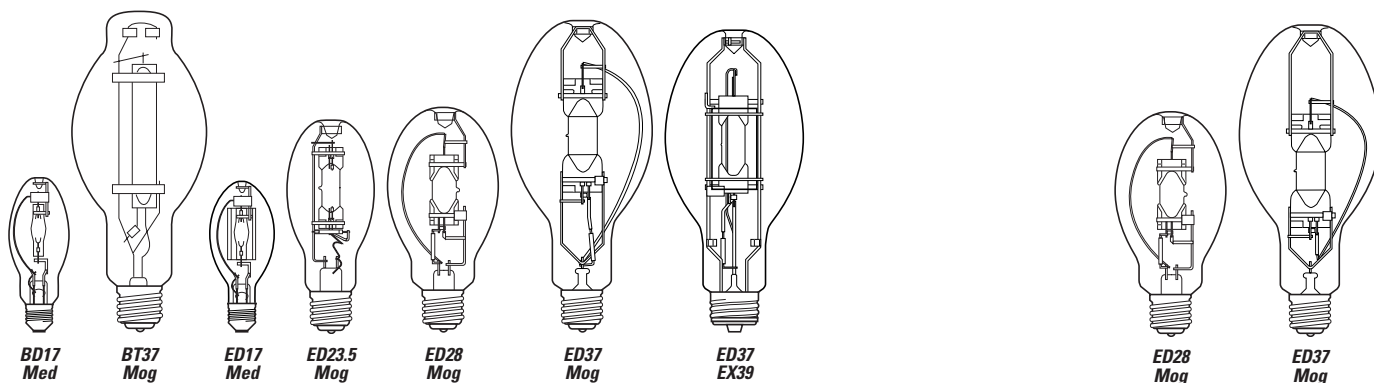
To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

## LAMP LOCATOR



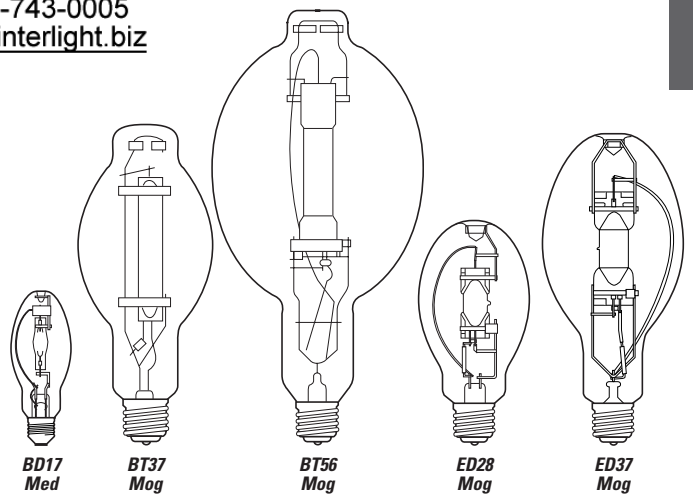
**ConstantColor® CMH® Ceramic Metal Halide**

**CMH® Chromafit™  
Ceramic Metal Halide  
(HPS Retrofit Lamps)**

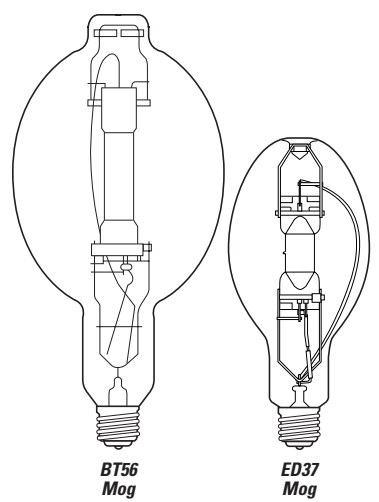


**PulseArc® Multi-Vapor® Metal Halide Lamps**

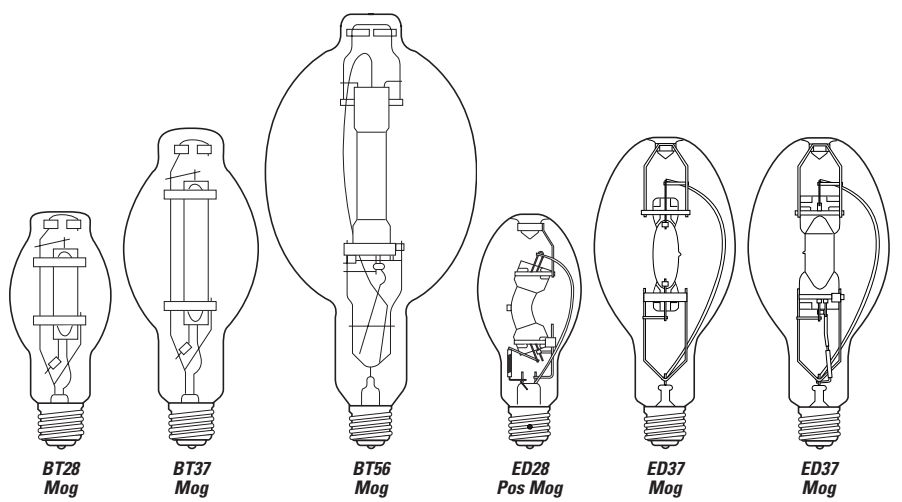
**Chromafit™ Multi-Vapor®  
Metal Halide Lamps  
(HPS Retrofit Lamps)**



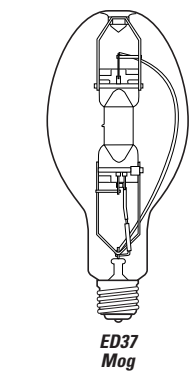
Multi-Vapor® Metal Halide Lamps



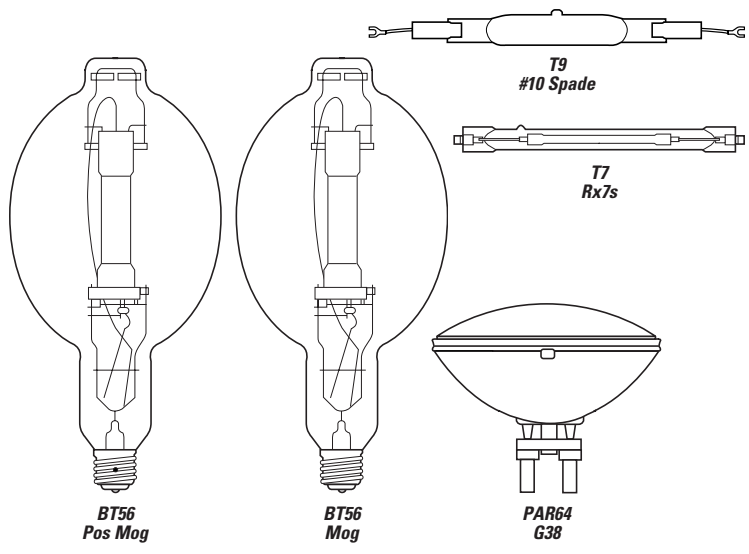
I-Line Multi-Vapor® Metal Halide Lamps (Mercury Retrofit Lamps)



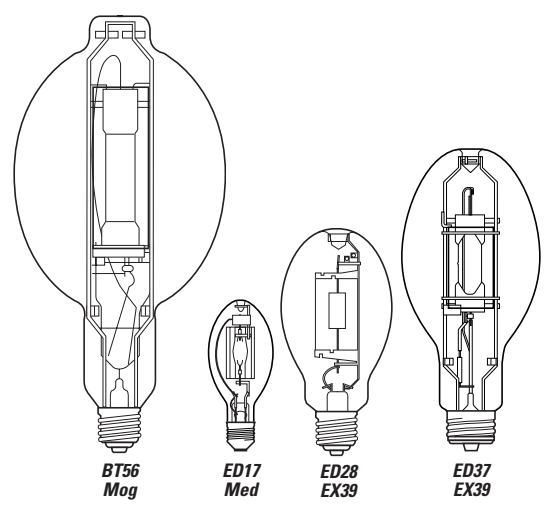
High Output and XHO Multi-Vapor® Metal Halide Lamps



Saf-T-Gard® Self-Extinguishing Multi-Vapor® Lamps



Sportslighting



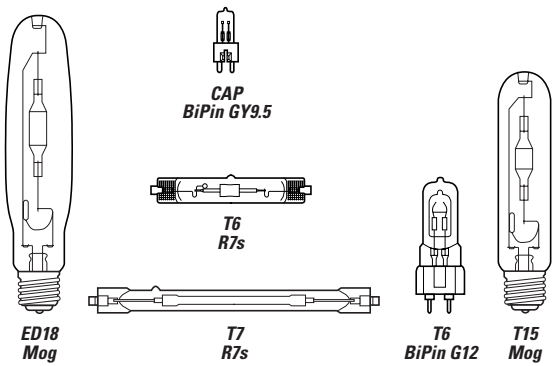
Protected Multi-Vapor® Metal Halide Lamps



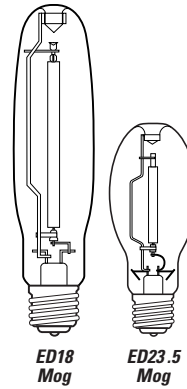
## High Intensity Discharge Lamps

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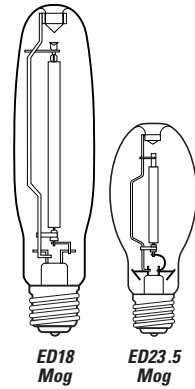
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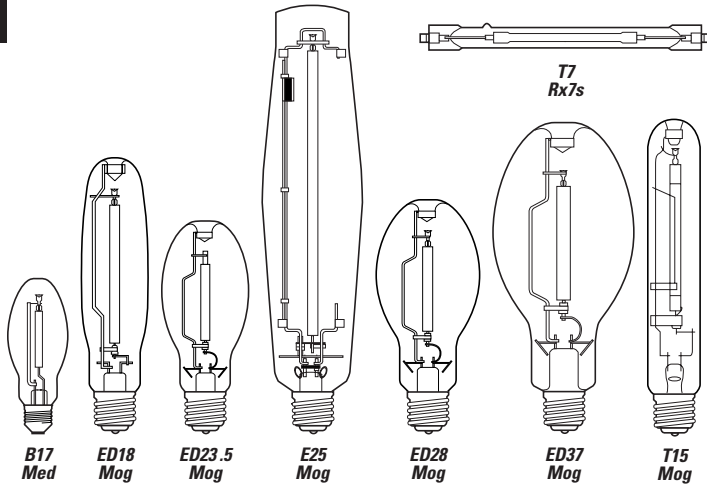
**Arcstream® Metal Halide Lamps**



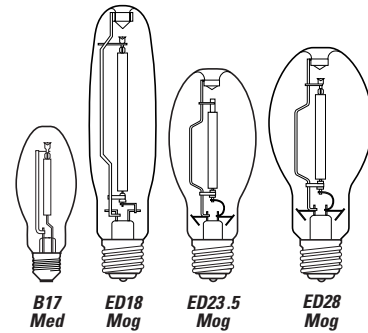
**Ecolux® NC  
Non-Cycling  
High Pressure  
Sodium Lamps  
(TCLP Compliant)**



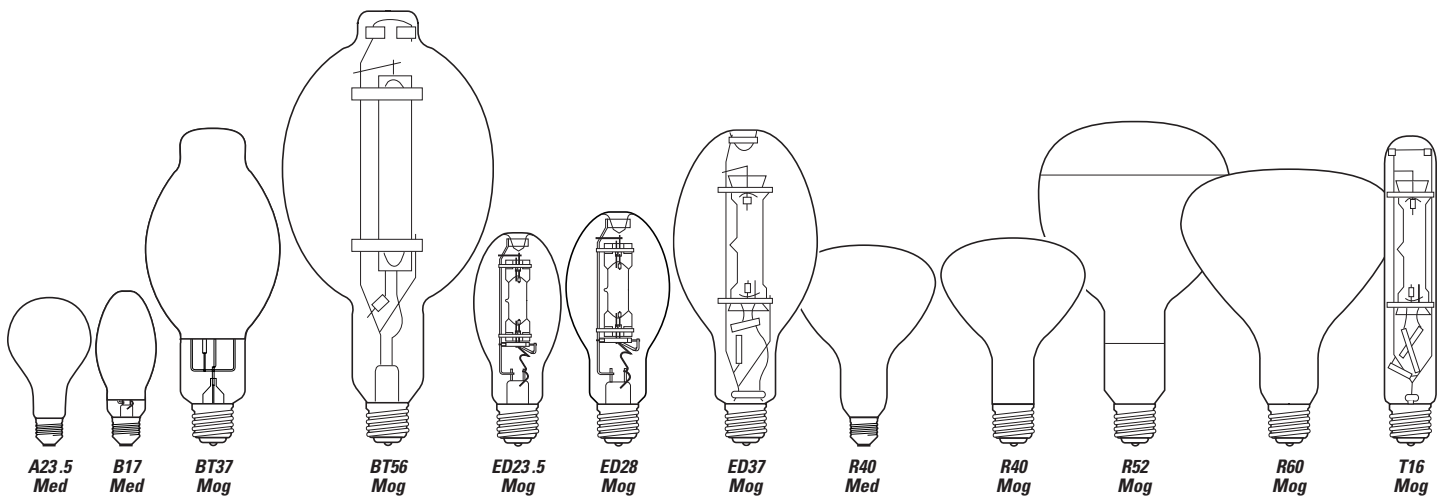
**Ecolux®  
High Pressure  
Sodium Lamps  
(TCLP Compliant)**



**Lucalox® High Pressure Sodium Lamps**



**Deluxe Lucalox® High Pressure  
Sodium Lamps**



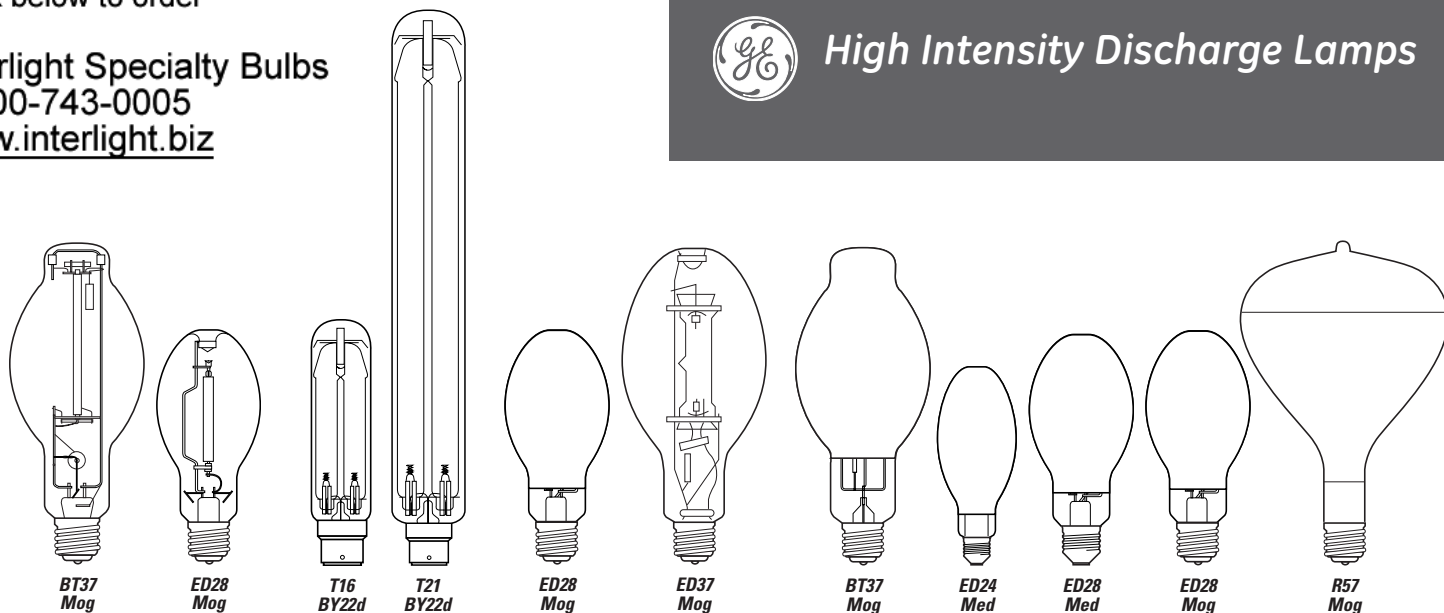
**Mercury Lamps**

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## High Intensity Discharge Lamps



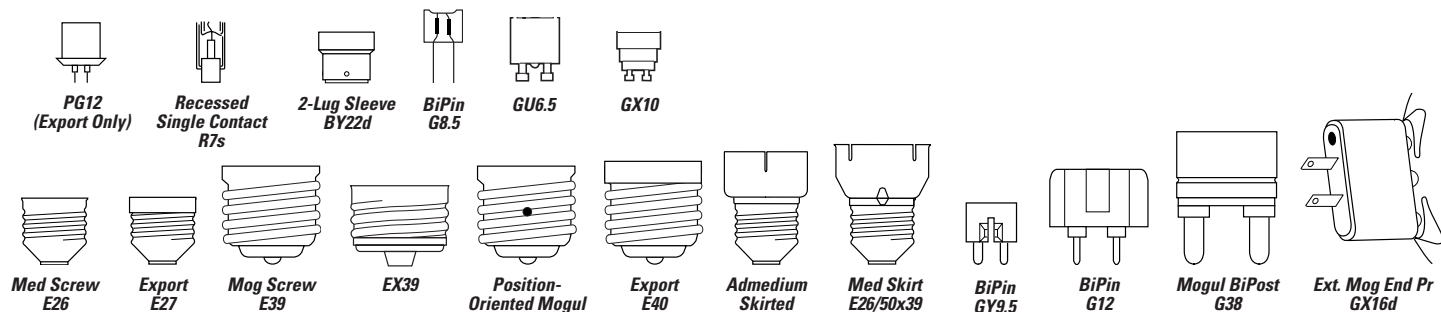
**E-Z Lux® High Pressure Sodium Lamps (Mercury Retrofit)**

**SOX Low Pressure Sodium Lamps**

**Saf-T-Gard® Mercury Lamps**

**E-Z Merc® Self-Ballasted Lamps (Incandescent Retrofit)**

### BASE IDENTIFICATION



### INTRODUCTION

GE HID lamps provide the following benefits:

#### High Efficacy/Low Operating Cost.

HID is generally the most efficient light source. Better efficiency almost always means lower operating cost.

#### Long Life.

Most HID lamps have life ratings that are better than incandescent lamps and similar to fluorescent lamps.

#### Compact Size.

An HID lamp produces high light output from a relatively compact source. Like incandescent, it is a "point" light source, which allows for good optical control.

The chart at right shows how HID lamps compare to incandescent, halogen, and fluorescent in terms of efficiency and rated life. Efficiency is measured in lumens per watt (LPW). Rated life for most lamp types is the number of burning hours when 50% of the tested samples have failed and 50% are still operational. For both HID and fluorescent, lamp life depends on the number of hours per start.

The combination of high efficiency and long life makes HID an ideal light source for many commercial and industrial applications.

#### SUGGESTED COLOR APPLICATIONS FOR HID LAMPS

**CMH®:** Stores, people places, display, accent.

**MVR:** Stores, public spaces, industrial, gymnasiums, floodlighting signs and buildings, parking areas, sports.

**MVR/C:** Same as MVR – warmer color – diffuse coating reduces glare.

#### Typical Lamp Characteristics

| Lamp Type                     | Typical LPW | Rated Life (in hours) |
|-------------------------------|-------------|-----------------------|
| Incandescent                  | 5 - 22      | 750 - 2000            |
| Halogen                       | 12 - 36     | 2000 - 6000           |
| Compact Fluorescent           | 27 - 80     | 9000 - 20,000         |
| Fluorescent                   | 75 - 100    | 12,000 - 24,000 +     |
| Mercury                       | 50 - 60     | 12,000 - 24,000 +     |
| ConstantColor® CMH®           | 80 - 95     | 7,500 - 20,000        |
| Multi-Vapor® Metal Halide     | 80 - 115    | 10,000 - 20,000       |
| Lucalox® High Pressure Sodium | 90 - 140    | 10,000 - 40,000       |

**MVR/SP30:** Same as MVR – warmer than MVR or MVR/C – matches SP30 fluorescent.

**MXR:** Warm color (3200K) – good match for halogen.

**LU:** Street lighting, parking areas, industrial, floodlighting, security, CCTV.

**LU/DX:** Floodlighting, parking areas, indoor/outdoor pedestrian malls, industrial, security, roadway.

**Deluxe (DX) Mercury:** Stores, public spaces – Metal Halide lamps however, are preferred.

**Clear Mercury:** Landscape lighting, specialized floodlighting such as green copper roofs.



## High Intensity Discharge Lamps

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### PRODUCT INFORMATION

#### GE CONSTANTCOLOR® CMH® CERAMIC METAL HALIDE LAMPS (pgs 3-9 to 3-11)

- Color uniformity lamp-to-lamp and over lamp life
- Excellent color rendering (80+ CRI, 90+ CRI for SPXX versions)
- Delivers more light than standard metal halide (10%–20% more)
- Lamp operates at high efficacy — up to 95 lumens per watt
- Many are universal burn — may be operated in any position
- Perfect for retail and commercial display lighting, accent and floodlighting, lobby and foyer lighting. Ideal for “people places.”

#### GE CMH® CHROMAFIT™ CERAMIC METAL HALIDE LAMPS (pg 3-11)

- Convert High Pressure Sodium sockets to crisp, white ceramic metal halide light (80+ CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Universal burn — may be operated in any position
- Uses: Area lighting, industrial and “people places”
- Enclosed glass fixtures only

#### GE PULSEARC® MEDIUM BASED METAL HALIDE LAMPS (/MED MODELS) (pgs 3-11 to 3-13)

- Low wattage metal halide lamps (formerly Halarc®) are now part of the PulseArc® family
- Compact source
- Sparkling white light (3000-4000K) and very good color rendition (70-75 CRI)
- High efficacy — more than 3 times the lumens per watt of incandescent
- Long life — up to 15 times longer than incandescent systems and up to 7 times longer than most PAR and R systems, saving maintenance and labor costs
- Superior optical control
- Uses: Display lighting, downlighting, floodlighting, corridors, lobbies, walkways; retail, office, commercial

#### GE PULSEARC® MULTI-VAPOR® METAL HALIDE LAMPS (/PA MODELS) (pgs 3-11 to 3-13)

- Designed for operation only on approved ballasts with metal halide pulse ignitors
- More light — 400W lamps provide highest initial and highest maintained lumens versus other standard universal or vertical base-up lamp options
- 50% longer life — 400W lamps provide 30,000 hours life when burned on 120 hour on/1 hour off cycle (approximately continuous)
- Faster hot restrike — less than 4 minutes versus 10-15 minutes for typical metal halide lamps

#### GE MULTI-VAPOR® METAL HALIDE LAMPS (pgs 3-13 to 3-14)

- Sparkling white light (3000-4000K) and very good color rendition (65-75 CRI)
- Warm, rich 3000K color of SP30 blends well with incandescent, halogen and triphosphor fluorescent lamps for interior retail applications
- High efficacy — more efficient than incandescent, mercury and most fluorescent sources
- Long life — 10,000-20,000 hours for most types
- Full line, 150-1000 watts, to meet most application needs
- Uses: Downlighting, floodlighting, corridors, lobbies, walkways; retail, commercial, industrial

#### GE HIGH OUTPUT MULTI-VAPOR® LAMPS (pgs 3-14)

- More light — optimized for higher light output in horizontal, vertical base-up and base-down burn applications
  - Horizontal burn lamps provide up to 25% more light than standard universal burn equivalents
  - 400W vertical burn lamps provide up to 22% more light than standard universal burn equivalents; the highest lumen lamps available for operation on standard M59 ballasts
- Longer life — horizontal burn lamps last up to 67% longer than universal burn lamp equivalents, significantly reducing replacement lamp and maintenance costs

#### GE STAYBRIGHT® (/STB) LAMPS (pg 3-14)

- Brighter longer — has 32% higher mean lumens while running on standard metal halide ballasts
- Uses: Any application where fixed-orientation lamps can be used. Gas stations, sports lighting, billboards, retail, office, roadway, parking garages, floodlights, sign lighting.

#### GE PROTECTED HIGH OUTPUT MULTI-VAPOR® LAMPS (/O) (pgs 3-14 to 3-16)

- Protective quartz jacket surrounds the arc tube
- The/O suffix and/or the “MPR” prefix in the Lamp Description indicates lamps are suitable for open fixture applications

#### GE CHROMAFIT™ MULTI-VAPOR® LAMPS (/R) (pg 3-16)

- Convert high pressure sodium sockets to crisp white metal halide light (65-70 CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Uses: Area lighting, industrial and “people places”

#### GE I-LINE MULTI-VAPOR® LAMPS (pgs 3-16)

- Convert mercury sockets to crisp, white metal halide light
- More light, better color, energy cost savings for mercury users
- 40%-100% more light than existing mercury lamps
- Operate on standard CW and CWA mercury ballasts and auxiliary equipment



## PRODUCT INFORMATION (CONTINUED)

### GE SAF-T-GARD® MULTI-VAPOR LAMPS (MVT) (pg 3-16)

- Special self-extinguishing feature prevents exposure to UV in case outer bulb is punctured or broken; lamp turns off within 15 minutes
- Meets requirements of Federal Standard 21CFR1040.30
- Saf-T-Gard® I-Line lamps convert mercury sockets to crisp, white metal halide light
- Saf-T-Gard® I-Line lamps operate on standard mercury ballasts and auxiliary equipment
- Uses: Industrial, commercial, gymnasiums, sports complexes, especially where open fixtures are used and risk of outer bulb breakage is possible

### GE ARCSTREAM® METAL HALIDE LAMPS (pgs 3-16 to 3-17)

- Compact size, white light, excellent color
- Precise optical control delivers a concentrated beam of light right where it's needed
- Variety of color temperatures (3,000K - 6,000K)
- PAR64: ideal for long-range projection and sports lighting applications
- Uses: Ideal for retail and commercial display lighting, floodlighting, accent/highlighting

### GE LUCALOX® HIGH PRESSURE SODIUM LAMPS (pgs 3-17 to 3-18)

- Very high efficacy/low operating cost
- Excellent lumen maintenance – over 90% @ 50% of life
- Very long life – 24,000+ hours
- Universal burn – can be operated in any position without affecting performance
- Warm color
- For open or enclosed fixtures
- Uses: Industrial, roadway, security, floodlighting

### GE DOUBLE-ENDED LUCALOX® LAMPS (/TD) (pg 3-18)

- Compact tubular design fits compact fixtures for excellent optical control
- High efficacy, lumen maintenance and long life of standard Lucalox® HPS

### GE STANDBY LONGLIFE LUCALOX® LAMPS (/SBY) (pg 3-18)

- Extra arc tube provides light instantly after momentary power interruption, and will increase to 80% light output in 1-2 minutes
- Dual arc tubes provide 40,000 hour rated life
- Operates on standard HPS ballasts and auxiliary equipment
- Uses: Industrial, roadway, security, and hard-to-reach sockets

### GE ECOLUX® NC “NON-CYCLING” HIGH PRESSURE SODIUM LAMPS (/ECO/NC) (pgs 3-18 to 3-19)

- Low mercury. Passes TCLP, which can lower disposal costs.
- Non-cycling feature makes locating and replacing end-of-life lamps quick and easy
- Lead-free base
- High efficacy/low operating cost

- 6%-11% higher initial lumens than standard HPS in 100W and 400W versions
- Long life – 30,000 hours
- Open or enclosed fixtures
- Uses: Industrial, roadway, security

### GE ECOLUX® HIGH PRESSURE SODIUM LAMPS (/ECO) (pg 3-19)

- Lead-free base. Passes TCLP, which can lower disposal costs.

### GE DELUXE LUCALOX® HIGH PRESSURE SODIUM LAMPS (pg 3-19)

- High efficacy, lumen maintenance and long life of standard Lucalox® HPS
- High color rendering (65-70CRI), much better than standard HPS
- Blends well with incandescent and standard HPS sources
- Operates on standard HPS ballasts and auxiliary equipment
- Uses: Storage rooms, industrial facilities, offices, gymnasiums, malls, parks, building floodlighting

### GE E-Z LUX® HIGH PRESSURE SODIUM LAMPS (pg 3-19)

- Direct replacement for mercury lamps on mercury ballasts
- More efficient, 57-114% more lumens and 10-14% fewer watts than mercury lamps they replace
- Uses: General lighting, roadway
- See operating notes for further information

### GE SOX LOW PRESSURE SODIUM LAMPS (pg 3-19 to 3-20)

- Highest luminous efficacy for general, not for color-critical lighting
- Monochromatic, yellow color (589nm)

### GE MERCURY LAMPS (pgs 3-20)

- Long life and good efficacy
- Phosphor coated Deluxe lamps provide good color rendering(50CRI)
- Uses: Industrial, roadway, landscapes, residential and commercial security, parking lots

### GE SAF-T-GARD® MERCURY LAMPS (pg 3-21)

- Special self-extinguishing feature prevents exposure to harmful UV in case outer bulb is punctured or broken; lamp turns off within 15 minutes
- Meets requirements of Federal Standard 21 CFR 1040.30
- See operating notes for further information

### GE E-Z MERC® SELF-BALLASTED MERCURY LAMPS (pg 3-21)

- Retrofit incandescent sockets to longer-life mercury lamps without additional mercury ballasts or auxiliary equipment

### GE EXPORT BASE LAMPS (pg 3-21 and 3-22)

- Export-only lamps are not sold or intended for use in North America. The lamps are identified by “/27” or “/40” at the end of the lamp description, and comply with electrical characteristics defined by IEC standards.
- Bulb shapes are generally similar to U.S. lamp types. Refer to drawings on pages 3-2 to 3-5.



# High Intensity Discharge Lamps

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## HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking High Intensity Discharge lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by wattage. In each of these wattage groups, lamps are listed by bulb shape.

### Bulb:

Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

**LET (Lamp Enclosure Type):**  
Describes fixture requirements for this lamp (see page 3-22).

**OP (Operating Position):**  
(see page 3-23).

**MOL:**  
Maximum Overall Length in inches.

**Base:**  
The type of base.

**LCL:**  
Distance between the center of the filament and the Light Center Length reference plane, in inches.

**Order Code:**  
It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

**Description:**  
The lamp's identification code.

**Case Qty.:**  
Number of product units packed in a case.

**ANSI Ballast Type:**  
Ballast type used to operate lamp.

### Lumens - Mean:

Lamp light output (lumens) at 40% of rated lamp life for Metal Halide lamps and 50% of rated life for Mercury and HPS lamps.

### CBCP (Center Beam Candlepower):

For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam. Used only for ConstantColor® CMH™ Metal Halide Lamps.

**Lumens - Initial:**  
Initial light output.

**Rated Life Hours:**  
Lamp burning hours to median life expectancy.

### Color Temperature Kelvins (K):

A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value the whiter or "cooler" the light appears.

**Color Rendering Index (CRI or Ra):**  
An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

**Additional Information:**  
Typical application and/or other important information.

| Bulb                                                       | Base | LET | OP  | Watts | MOL  | LCL | Order Code | Description  | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot-notes | Warning |
|------------------------------------------------------------|------|-----|-----|-------|------|-----|------------|--------------|-------------------|-----------|------|--------------------|----------------|-------------|---------------|-----|------------------------|------------|---------|
| <b>HIGH OUTPUT AND XHO MULTI-VAPOR® METAL HALIDE LAMPS</b> |      |     |     |       |      |     |            |              |                   |           |      |                    |                |             |               |     |                        |            |         |
| <b>400 WATTS</b>                                           |      |     |     |       |      |     |            |              |                   |           |      |                    |                |             |               |     |                        |            |         |
| ED37                                                       | Mog  | S   | VBU | 400   | 11.5 | 7   | 49656      | MVR400/C/VBU | M59               | 6         |      | 20000              | 41000          | 26500       | 3700          | 70  | Coated                 |            | 121     |

## MVR400 / C / VBU

Identifies as Multi-Vapor® lamp.

Identifies the lamp's wattage.

Outer bulb finish.

Operating position (see page 3-23)

### WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using illustrations on pages 3-2 to 3-5.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 3-5.
4. Find your lamp in the tabular data containing the bulb shape, size and base, which are all listed by wattage.

| HID BRAND NAME CROSS-REFERENCE     |                             |                               |
|------------------------------------|-----------------------------|-------------------------------|
| GE                                 | OSRAM/SYLVANIA              | PHILIPS                       |
| Arcstream® MQI                     | BRITE-LINE™, HQI®           | MHN-TD                        |
| ChromaFit™ Multi-Vapor®            | —                           | —                             |
| ConstantColor® CMH®                | Powerball MCP               | MasterColor™ CDM              |
| Ceramic Metal Halide               |                             |                               |
| Deluxe Lucalox®                    | —                           | Ceramalux™ Comfort            |
| E-Z Lux®                           | Unalux®                     | Ceramalux™ Retrolux           |
| E-Z Merc®                          | —                           | Self Ballasted Mercury        |
| Ecolux®                            | Lumalux ECO®                | Ceramalux Alto®               |
| Ecolux® NC                         | Lumalux Plus™/ECO®          | Ceramalux Alto® Plus          |
| High Output Multi-Vapor®           | Super Metalarc®             | Metal Halide                  |
| Horizontal Multi-Vapor®            | Super Metalarc®             | —                             |
| I-Line Multi-Vapor®                | —                           | —                             |
| Lucalox®                           | Lumalux®                    | Ceramalux™                    |
| Multi-Vapor®                       | Metalarc®                   | Metal Halide                  |
| Protected High Output Multi-Vapor® | Metalarc® Pro-Tech™         | —                             |
| PulseArc®                          | Super Metalarc® Pulse Start | Pulse Start                   |
| Saf-T-Gard® Mercury                | Mercury Safeline®           | Safety Lifeguard Mercury      |
| Saf-T-Gard® Multi-Vapor®           | Metalarc® Safeline®         | Safety Lifeguard Metal Halide |
| SOX Low Pressure Sodium            | SOX Low Pressure Sodium     | SOX Low Pressure Sodium       |
| Standby Longlife Lucalox®          | Lumalux® Standby            | Instant Restrike Ceramalux™   |
| StayBright®                        | —                           | —                             |
| Watt-Miser® Multi-Vapor®           | —                           | —                             |

**ATTENTION:** This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.



| Bulb                                          | Base    | LET | OP | Watts | MOL  | LCL  | Order Code   | Description                     | ANSI Ballast Type | Case Qty. | CBBCP | Rated Life (hours) | Lumens Initial | Mean           | Color Temp. K | CRI | Additional Information      | Foot- notes | Warning |
|-----------------------------------------------|---------|-----|----|-------|------|------|--------------|---------------------------------|-------------------|-----------|-------|--------------------|----------------|----------------|---------------|-----|-----------------------------|-------------|---------|
| <b>CONSTANTCOLOR® CMH® METAL HALIDE LAMPS</b> |         |     |    |       |      |      |              |                                 |                   |           |       |                    |                |                |               |     |                             |             |         |
| <b>CMH® MR16</b>                              |         |     |    |       |      |      |              |                                 |                   |           |       |                    |                |                |               |     |                             |             |         |
| MR1620                                        | GX10T&L | O   | U  | 20    | 2.28 |      | <b>85101</b> | <b>CMH20MR16/830/SP</b>         | M156              | 9000      | 9000  | 1000               |                |                | 3000          | 80  | 12 Spotlight, UV control    | 33, 51      | 107     |
|                                               |         |     |    |       |      |      | <b>85110</b> | <b>CMH20MR16/830/FL</b>         | M156              | 2900      | 9000  | 1000               |                |                | 3000          | 80  | 25 Floodlight, UV control   | 33, 51      | 107     |
|                                               |         |     |    |       |      |      | <b>97630</b> | <b>CMH20MR16/830/WFL</b>        | M156              | 1500      | 9000  | 1000               |                |                | 3000          | 80  | 40 Wideflood, UV Control    | 33, 51      | 107     |
| <b>CMH® PAR</b>                               |         |     |    |       |      |      |              |                                 |                   |           |       |                    |                |                |               |     |                             |             |         |
| PAR20                                         | Med     | O   | U  | 20    | 3.5  |      | <b>29485</b> | <b>CMH20PAR20/SP</b>            | M156              | 15        | 13000 | 7500               | 1000           |                | 3000          | 81  | 8 Spotlight, UV control     | 33, 51      | 107     |
|                                               |         |     |    |       |      |      | <b>29486</b> | <b>CMH20PAR20/FL</b>            | M156              | 15        | 3750  | 7500               | 1000           |                | 3000          | 81  | 25 Floodlight, UV control   | 33, 51      | 107     |
| PAR30L                                        | Med     | O   | U  | 20    | 4.75 |      | <b>29487</b> | <b>CMH20PAR30/SP10</b>          | M156              | 6         | 19800 | 7500               | 1200           |                | 3000          | 81  | 10 Spotlight, UV control    | 33, 51      | 107     |
|                                               |         |     |    |       |      |      | <b>29488</b> | <b>CMH20PAR30/SP15</b>          | M156              | 6         | 14500 | 7500               | 1200           |                | 3000          | 81  | 15 Spotlight, UV control    | 33, 51      | 107     |
|                                               |         |     |    |       |      |      | <b>29489</b> | <b>CMH20PAR30/FL25</b>          | M156              | 6         | 4900  | 7500               | 1200           |                | 3000          | 81  | 25 Floodlight, UV control   | 33, 51      | 107     |
| PAR20                                         | Med     | O   | U  | 39    | 3.5  |      | <b>42068</b> | <b>CMH39/UPAR20/FL25</b>        | M130              | 15        | 7500  | 10000              | 2100           |                | 3000          | 86  | 25 Floodlight, UV control   | 33,45       | 107     |
|                                               |         |     |    |       |      |      | <b>42069</b> | <b>CMH39/UPAR20/SP10</b>        | M130              | 15        | 22000 | 10000              | 2100           |                | 3000          | 86  | 10 Spotlight, UV control    | 33,45       | 107     |
| PAR30L                                        | Med     | O   | U  | 39    | 4.75 |      | <b>42066</b> | <b>CMH39/PAR30L/SP15</b>        | M130              | 6         | 29000 | 10000              | 2400           |                | 3000          | 81  | 15 Spotlight, UV control    | 33,45       | 107     |
|                                               |         |     |    |       |      |      | <b>42067</b> | <b>CMH39/PAR30L/FL25</b>        | M130              | 6         | 11000 | 10000              | 2400           |                | 3000          | 81  | 25 Floodlight, UV control   | 33,45       | 107     |
|                                               |         |     |    |       |      |      | <b>45066</b> | <b>CMH39/PAR30L/SP10</b>        | M130              | 6         | 39600 | 10000              | 2400           |                | 3000          | 81  | 10 Spotlight, UV control    | 33,45       | 107     |
|                                               |         |     |    | 70    | 4.75 |      | <b>22152</b> | <b>CMH70/PAR30L/830SP</b>       | M98 or M139       | 6         | 43000 | 13000              | 4700           |                | 3000          | 82  | 15 Spotlight, UV control    | 33,45       | 107     |
|                                               |         |     |    |       |      |      | <b>22159</b> | <b>CMH70/PAR30L/830FL</b>       | M98 or M139       | 6         | 10000 | 13000              | 4700           |                | 3000          | 82  | 40 Floodlight, UV control   | 33,45       | 107     |
| PAR38                                         | Med     | O   | U  | 70    | 5.31 |      | <b>45675</b> | <b>CMH70/PAR38/830SP15/ECO</b>  | M98 or M139       | 6         | 40000 | 10000              | 4800           |                | 3000          | 82  | 15 Spotlight, UV control    | 33          | 108     |
|                                               |         |     |    |       |      |      | <b>45677</b> | <b>CMH70/PAR38/830FL25/ECO</b>  | M98 or M139       | 6         | 14000 | 10000              | 4800           |                | 3000          | 82  | 25 Spotlight, UV control    | 33          | 108     |
|                                               |         |     |    |       |      |      | <b>45679</b> | <b>CMH70/PAR38/830WF/ECO</b>    | M98 or M139       | 6         |       | 10000              | 4800           |                | 3000          | 82  | Wide Floodlight, UV control | 33          | 108     |
|                                               |         |     |    | 100   | 5.31 |      | <b>45680</b> | <b>CMH100/PAR38/830SP15/ECO</b> | M90 or M140       | 6         | 45000 | 10000              | 6500           |                | 3000          | 81  | 15 Spotlight, UV control    | 33          | 108     |
|                                               |         |     |    |       |      |      | <b>45681</b> | <b>CMH100/PAR38/830FL25/ECO</b> | M90 or M140       | 6         | 15000 | 10000              | 6500           |                | 3000          | 81  | 25 Spotlight, UV control    | 33          | 108     |
|                                               |         |     |    |       |      |      | <b>45682</b> | <b>CMH100/PAR38/830WF/ECO</b>   | M90 or M140       | 6         |       | 10000              | 6500           |                | 3000          | 81  | Wide Floodlight, UV control | 33          | 108     |
| <b>CMH® ELLIPTICAL</b>                        |         |     |    |       |      |      |              |                                 |                   |           |       |                    |                |                |               |     |                             |             |         |
| BD17                                          | Med     | E   | U  | 70    | 5.43 | 3.37 | <b>22119</b> | <b>CMH70/U/830/MED</b>          | M98 or M139       | 6         |       | 15000              | 6300           | 4100           | 3000          | 80  | Clear                       | 33          | 116     |
|                                               |         |     |    |       |      |      | <b>22124</b> | <b>CMH70/C/U/830/MED</b>        | M98 or M139       | 6         |       | 15000              | 6000           | 4000           | 3000          | 80  | Coated                      | 33          | 116     |
|                                               |         |     |    | 100   | 5.43 | 3.37 | <b>22127</b> | <b>CMH100/U/830/MED</b>         | M90 or M140       | 6         |       | 10000V<br>15000H   | 6600V<br>9200H | 9200V<br>6400H | 3000          | 83  | Clear                       | 33          | 116     |
|                                               |         |     |    |       |      |      | <b>22137</b> | <b>CMH100/C/U830/MED</b>        | M90 or M140       | 6         |       | 10000V<br>15000H   | 8700V<br>8700H | 6300V<br>6300H | 3000          | 83  | Coated                      | 33          | 116     |
| <b>CMH® ELLIPTICAL OPEN-RATED</b>             |         |     |    |       |      |      |              |                                 |                   |           |       |                    |                |                |               |     |                             |             |         |
| ED17                                          | Med     | O   | U  | 70    |      | 3.37 | <b>31069</b> | <b>CMH70/U/830/MED/O</b>        | M98 or M143       | 6         |       | 15000              | 5700           | 4100           | 3000          | 80  | Clear                       | 33          | 116     |
|                                               |         |     |    |       |      |      | <b>31070</b> | <b>CMH70/C/U/830/MED/O</b>      | M98 or M143       | 6         |       | 15000              | 5700           | 4100           | 3000          | 80  | Coated                      | 33          | 116     |
|                                               |         |     |    |       |      |      | <b>31073</b> | <b>CMH70/U/942/MED/O</b>        | M98 or M143       | 6         |       | 15000              | 5500           | 4200           | 4000          | 90  | Clear                       | 33          | 116     |
|                                               |         |     |    |       |      |      | <b>31074</b> | <b>CMH70/C/U/942/MED/O</b>      | M98 or M143       | 6         |       | 15000              | 5200           | 4000           | 4000          | 90  | Coated                      | 33          | 116     |
|                                               |         |     |    | 150   |      | 3.37 | <b>31065</b> | <b>CMH150/U/830/MED/O</b>       | M102 or M142      | 6         |       | 12000              | 12900          | 9500           | 3000          | 80  | Clear                       | 33          | 116     |



# High Intensity Discharge Lamps

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| Bulb                                                      | Base       | LET | OP  | Watts | MOL   | LCL  | Order Code | Description           | ANSI Ballast Type  | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot-<br>notes | Warning |
|-----------------------------------------------------------|------------|-----|-----|-------|-------|------|------------|-----------------------|--------------------|-----------|------|--------------------|----------------|-------------|---------------|-----|------------------------|----------------|---------|
| <b>CONSTANTCOLOR® CMH® METAL HALIDE LAMPS (CONTINUED)</b> |            |     |     |       |       |      |            |                       |                    |           |      |                    |                |             |               |     |                        |                |         |
| <b>CMH® ELLIPTICAL OPEN-RATED (CONTINUED)</b>             |            |     |     |       |       |      |            |                       |                    |           |      |                    |                |             |               |     |                        |                |         |
| ED17                                                      | Med        | O   | U   | 150   | 3.37  |      | 31066      | CMH150/C/U830/MED/O   | M102 or 6 M142     |           |      | 12000              | 11900          | 8800        | 3000          | 80  | Coated                 | 33             |         |
|                                                           |            |     |     |       |       |      | 31067      | CMH150/U/942/MED/O    | M102 or 6 M142     |           |      | 15000              | 12000          | 9000        | 4200          | 90  | Clear                  | 33             |         |
|                                                           |            |     |     |       |       |      | 31068      | CMH150/C/U/942/MED/O  | M102 or 6 M142     |           |      | 15000              | 11000          | 8300        | 4200          | 90  | Coated                 | 33             |         |
| <b>CMH® SINGLE ENDED G12</b>                              |            |     |     |       |       |      |            |                       |                    |           |      |                    |                |             |               |     |                        |                |         |
| T4.5                                                      | BiPin G12  | E   | U   | 20    | 3.56  | 2.18 | 29703      | CMH20/T/U/830/G12     | M156               | 12        |      | 12000              | 1600           | 1060        | 3000          | 81  | UV Control             | 33,39,51       | 104     |
|                                                           |            |     |     |       |       |      | 20153      | CMH39/T/U/830/G12     | M130               | 12        |      | 10000              | 3400           | 2600        | 3000          | 82  | UV Control             | 39,44,45       | 104     |
|                                                           |            |     |     |       |       |      | 29696      | CMH39/T/U/942/G12     | M130               | 12        |      | 12000              | 3150           | 2700        | 4200          | 88  | UV Control             | 39,44,45       | 104     |
| T6                                                        | BiPin G12  | E   | U   | 70    | 3.56  | 2.18 | 20016      | CMH70/T/U/830/G12     | M85, M98, or M139  | 12        |      | 15000              | 6200           | 4700        | 3000          | 83  | UV Control             | 39,44,45       | 104     |
|                                                           |            |     |     |       |       |      | 20023      | CMH70/T/U/942/G12     | M85, M98, or M139  | 12        |      | 15000              | 6000           | 4600        | 4200          | 93  | UV Control             | 39,44,45       | 104     |
|                                                           |            |     |     | 150   | 3.93  | 2.18 | 20017      | CMH150/T/U/830/G12    | M81, M102, or M142 | 12        |      | 12000              | 14000          | 11000       | 3000          | 82  | UV Control             | 39,44,45       | 104     |
|                                                           |            |     |     |       |       |      | 20018      | CMH150/T/U/942/G12    | M81, M102, or M142 | 12        |      | 12000              | 13000          | 11000       | 4200          | 94  | UV Control             | 39,44,45       | 104     |
| <b>CMH® DOUBLE-ENDED TD</b>                               |            |     |     |       |       |      |            |                       |                    |           |      |                    |                |             |               |     |                        |                |         |
| T6                                                        | Rx7s       | E   | H45 | 70    | 4.5   | 2.25 | 92587      | CMH70/TD/830/RX7S     | M85, M98, or M139  | 12        |      | 15000              | 7000           | 5600        | 3000          | 81  | UV Control             | 39,44          | 109     |
|                                                           |            |     |     |       |       |      | 92588      | CMH70/TD/942/RX7S     | M85, M98, or M139  | 12        |      | 15000              | 7000           | 5600        | 4200          | 88  | UV Control             | 39,44          | 109     |
| T7                                                        | Rx7s       | E   | H45 | 150   | 5.37  | 2.62 | 92589      | CMH150/TD/830/RX7S    | M81, M102, or M142 | 12        |      | 15000              | 14000          | 11500       | 3000          | 80  | UV Control             | 39,44          | 109     |
|                                                           |            |     |     |       |       |      | 92590      | CMH150/TD/942/RX7S    | M81, M102, or M142 | 12        |      | 15000              | 14000          | 11500       | 4200          | 93  | UV Control             | 39,44          | 109     |
| <b>CMH® GU6.5</b>                                         |            |     |     |       |       |      |            |                       |                    |           |      |                    |                |             |               |     |                        |                |         |
| T4                                                        | GU6.5      | E   | U   | 20    | 2.05  | 1.18 | 85086      | CMH20/TC/U/830/G6.5   | M156               | 12        |      | 9000               | 1615           | 1100        | 3000          | 80  | UV Control             | 33,44,51       | 104     |
| <b>CMH® MINI'S</b>                                        |            |     |     |       |       |      |            |                       |                    |           |      |                    |                |             |               |     |                        |                |         |
| T4.5                                                      | BiPin G8.5 | E   | U   | 20    | 3.37  | 2    | 92696      | CMH20/TC/U/830/G8.5   | M156               | 12        |      | 12000              | 1600           | 1060        | 3000          | 81  | UV Control             | 33,44,51       | 104     |
|                                                           |            |     |     |       |       |      | 90352      | CMH39/TC/U/830/G8.5   | M130               | 12        |      | 10000              | 3400           | 2600        | 3000          | 82  | UV Control             | 39,44,45       | 104     |
|                                                           |            |     |     |       |       |      | 29698      | CMH39/TC/U/942/G8.5   | M130               | 12        |      | 12000              | 3150           | 2700        | 4200          | 88  | UV Control             | 39,44,45       | 104     |
|                                                           |            |     |     |       |       |      | 92585      | CMH70/TC/U/830/G8.5   | M98 or M139        | 12        |      | 9000               | 6200           | 4700        | 3000          | 83  | UV Control             | 39,44,45       | 104     |
|                                                           |            |     |     |       |       |      | 29701      | CMH70/TC/U/942/G8.5   | M98 or M139        | 12        |      | 15000              | 6000           | 4600        | 4200          | 90  | UV Control             | 39,44,45       | 104     |
| <b>HIGH-WATT CMH® SPXX</b>                                |            |     |     |       |       |      |            |                       |                    |           |      |                    |                |             |               |     |                        |                |         |
| ED28                                                      | EX39       | O   | VBU | 250   | 8.31  | 5    | 48429      | CMH250/VBU/PA/O       |                    | 12        |      | 20000              | 23000          | 18400       | 4100          | 90  |                        | 33,45,52       | 106     |
|                                                           |            |     |     |       |       |      | 48432      | CMH250/C/VBU/PA/O     |                    | 12        |      | 20000              | 22000          | 17600       | 4100          | 90  |                        | 33,45,52       | 106     |
| ED37                                                      | EX39       | O   | VBU | 320   | 11.31 | 7    | 17264      | CMH320/PA/O           |                    | 6         |      | 20000              | 30000          | 24000       | 3700          | 90  |                        | 33,45,52       | 106     |
|                                                           |            |     |     |       |       |      | 17267      | CMH320/C/PA/O         |                    | 6         |      | 20000              | 29000          | 23200       | 3700          | 90  |                        | 33,45,52       | 106     |
|                                                           |            |     |     | 350   | 11.31 | 7    | 11834      | CMH350/VBU/940/PA/O   |                    | 6         |      | 20000              | 34000          | 27200       | 3600          | 90  |                        | 33,45,52       | 106     |
|                                                           |            |     |     |       |       |      | 11835      | CMH350/C/VBU/940/PA/O |                    | 6         |      | 20000              | 33000          | 26400       | 3600          | 90  |                        | 33,45,52       | 106     |
|                                                           |            |     |     | 400   | 11.31 | 7    | 49910      | CMH400/VBU/940/PA/O   |                    | 6         |      | 20000              | 40000          | 32000       | 3700          | 92  |                        | 33,45,49,52    | 106     |
|                                                           |            |     |     |       |       |      | 49911      | CMH400/C/VBU/940/PA/O |                    | 6         |      | 20000              | 39000          | 31200       | 3700          | 92  |                        | 33,45,49,52    | 106     |

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## High Intensity Discharge Lamps

| Bulb                                               | Base | LET | OP  | Watts | MOL  | LCL  | Order Code | Description         | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI   | Additional Information | Foot- notes | Warning |
|----------------------------------------------------|------|-----|-----|-------|------|------|------------|---------------------|-------------------|-----------|------|--------------------|----------------|-------------|---------------|-------|------------------------|-------------|---------|
| CONSTANTCOLOR® CMH® METAL HALIDE LAMPS (CONTINUED) |      |     |     |       |      |      |            |                     |                   |           |      |                    |                |             |               |       |                        |             |         |
| CMH® CHROMAFIT™                                    |      |     |     |       |      |      |            |                     |                   |           |      |                    |                |             |               |       |                        |             |         |
| T15                                                | Mog  | E   | U   | 250   | 9.75 | 5.75 | 93357      | CMH250/U/830/R      | S50               | 12        |      | 16000              | 25000          | 20000       | 3000          | 85    |                        | 44,45       | 105     |
| ED18                                               | Mog  | E   | U   | 400   | 9.75 | 5.75 | 93295      | CMH400/U/830/R      | S51               | 12        |      | 20000              | 41000          | 31300       | 3000H         | 80>   |                        | 44,45,49    | 105     |
|                                                    |      |     |     |       |      |      |            |                     |                   |           |      |                    |                |             |               | 3600V |                        |             |         |
| PULSEARC® MULTI-VAPOR® METAL HALIDE LAMPS          |      |     |     |       |      |      |            |                     |                   |           |      |                    |                |             |               |       |                        |             |         |
| 32 WATTS                                           |      |     |     |       |      |      |            |                     |                   |           |      |                    |                |             |               |       |                        |             |         |
| ED17                                               | Med  | O   | VBD | 32    | 5.43 | 3.43 | 12651      | MXR32/C/VBD/O       | M100              | 6         |      | 10000              | 2400           | 1700        | 3200          | 70    | Coated, protected      |             | 119     |
|                                                    |      |     |     |       |      |      | 16469      | MXR32/C/VBU/O       | M100              | 6         |      | 10000              | 2400           | 1700        | 3200          | 70    | Coated, protected      |             | 119     |
| 50 WATTS                                           |      |     |     |       |      |      |            |                     |                   |           |      |                    |                |             |               |       |                        |             |         |
| ED17                                               | Med  | O   | U   | 50    | 5.43 | 3.43 | 45670      | MXR50/U/MED/O       | M110              | 6         |      | 10000              | 3400           | 1700        | 3500          | 70    | Clear, protected       |             | 119     |
|                                                    |      |     |     |       |      |      | 45671      | MXR50/C/U/MED/O     | M110              | 6         |      | 10000              | 3200           | 1500        | 3500          | 70    | Coated, protected      |             | 119     |
|                                                    |      |     |     |       |      |      | 10361      | MXR50/U/MED         | M110              | 6         |      | 10000              | 3200           | 2100        | 3700          | 60    | Clear                  |             | 118     |
|                                                    |      |     |     |       |      |      | 10364      | MXR50/C/U/MED       | M110              | 6         |      | 10000              | 3000           | 2000        | 3400          | 65    | Coated                 |             | 118     |
| 70 WATTS                                           |      |     |     |       |      |      |            |                     |                   |           |      |                    |                |             |               |       |                        |             |         |
| ED17                                               | Med  | O   | U   | 70    | 5.43 | 3.43 | 12377      | MXR70/U/MED/O       | M98               | 6         |      | 15000              | 5500           | 3500        | 3200          | 70    | Clear, protected       |             | 119     |
|                                                    |      |     |     |       |      |      | 12577      | MXR70/C/U/MED/O     | M98               | 6         |      | 15000              | 5300           | 3300        | 3200          | 70    | Coated, protected      |             | 119     |
|                                                    |      |     |     |       |      |      | 22158      | MXR70/U/MED         | M98               | 6         |      | 12000              | 5500           | 3500        | 3200          | 70    | Clear                  |             | 118     |
|                                                    |      |     |     |       |      |      | 22162      | MXR70/C/U/MED       | M98               | 6         |      | 12000              | 5300           | 3300        | 3200          | 70    | Coated                 |             | 118     |
|                                                    |      |     |     |       |      |      | 12590      | MVR70/U/MED         | M98               | 6         |      | 12000              | 4700           | 3000        | 4000          | 75    | Clear                  |             | 118     |
|                                                    |      |     |     |       |      |      | 12594      | MVR70/C/U/MED       | M98               | 6         |      | 12000              | 4500           | 2800        | 4000          | 75    | Coated                 |             | 118     |
| 100 WATTS                                          |      |     |     |       |      |      |            |                     |                   |           |      |                    |                |             |               |       |                        |             |         |
| ED17                                               | Med  | O   | U   | 100   | 5.43 | 3.43 | 12381      | MXR100/U/MED/O      | M90               | 6         |      | 15000              | 9000           | 6200        | 3200          | 70    | Clear, protected       |             | 119     |
|                                                    |      |     |     |       |      |      | 12579      | MXR100/C/U/MED/O    | M90               | 6         |      | 15000              | 8500           | 5900        | 3200          | 70    | Coated, protected      |             | 119     |
|                                                    |      |     |     |       |      |      | 18680      | MXR100/U/MED        | M90               | 6         |      | 15000              | 9000           | 6200        | 3200          | 70    | Clear                  |             | 118     |
|                                                    |      |     |     |       |      |      | 18679      | MXR100/C/U/MED      | M90               | 6         |      | 15000              | 8500           | 5900        | 3200          | 70    | Coated                 |             | 118     |
|                                                    |      |     |     |       |      |      | 12652      | MVR100/U/MED        | M90               | 6         |      | 15000              | 8100           | 5800        | 4000          | 75    | Clear                  |             | 118     |
|                                                    |      |     |     |       |      |      | 12653      | MVR100/C/U/MED      | M90               | 6         |      | 15000              | 7600           | 4900        | 4000          | 75    | Coated                 |             | 118     |
| 150 WATTS                                          |      |     |     |       |      |      |            |                     |                   |           |      |                    |                |             |               |       |                        |             |         |
| ED17                                               | Med  | O   | U   | 150   | 5.43 | 3.43 | 45683      | MXR150/U/MED/O      | M102              | 6         |      | 15000              | 12500          | 8600        | 3500          | 70    | Clear, protected       |             | 119     |
|                                                    |      |     |     |       |      |      | 45688      | MXR150/C/U/MED/O    | M102              | 6         |      | 15000              | 12000          | 8300        | 3500          | 70    | Coated, protected      |             | 119     |
|                                                    |      |     |     |       |      |      | 22935      | MXR150/U/MED        | M102              | 6         |      | 15000              | 13300          | 10000       | 3400          | 60    | Clear                  |             | 118     |
|                                                    |      |     |     |       |      |      | 22936      | MXR150/C/U/MED      | M102              | 6         |      | 15000              | 12600          | 9500        | 3100          | 60    | Coated                 |             | 118     |
|                                                    |      |     |     |       |      |      | 12598      | MVR150/U/MED        | M102              | 6         |      | 15000              | 14000          | 10500       | 4300          | 65    | Clear                  |             | 118     |
|                                                    |      |     |     |       |      |      | 12604      | MVR150/C/U/MED      | M102              | 6         |      | 15000              | 13300          | 10000       | 3900          | 70    | Coated                 |             | 118     |
| 175 WATTS                                          |      |     |     |       |      |      |            |                     |                   |           |      |                    |                |             |               |       |                        |             |         |
| ED23.5                                             | Mog  | E   | VBU | 175   | 7.5  | 5    | 22342      | MXR175/VBU/PA       | M137 or 6<br>M152 |           |      | 15000              | 17000          | 12500       | 3200          | 65    | Clear                  | 43          | 117     |
|                                                    |      |     |     |       |      |      | 11185      | MXR175/C/VBU/PA     | M137 or 6<br>M152 |           |      | 15000              | 16000          | 12000       | 3200          | 65    | Coated                 | 43          | 117     |
|                                                    |      |     |     |       |      |      | 12622      | MVR175/VBU/PA       | M137 or 6<br>M152 |           |      | 15000              | 17500          | 13000       | 4000          | 75    | Clear                  | 43          | 117     |
|                                                    |      |     |     |       |      |      | 12633      | MVR175/C/VBU/PA     | M137 or 6<br>M152 |           |      | 15000              | 16500          | 12500       | 4000          | 75    | Coated                 | 43          | 117     |
| BD17                                               | Med  | E   | VBU | 175   | 5.75 | 3.43 | 12636      | MVR175/VBU/MED/PA   | M137 or 6<br>M152 |           |      | 15000              | 17500          | 13000       | 4000          | 75    | Clear                  | 43          | 117     |
|                                                    |      |     |     |       |      |      | 12637      | MVR175/C/VBU/MED/PA | M137 or 6<br>M152 |           |      | 15000              | 16500          | 12500       | 4000          | 75    | Coated                 | 43          | 117     |



# High Intensity Discharge Lamps

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| Bulb                                                         | Base | LET | OP  | Watts | MOL  | LCL | Order Code | Description          | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot-<br>notes | Warning |
|--------------------------------------------------------------|------|-----|-----|-------|------|-----|------------|----------------------|-------------------|-----------|------|--------------------|----------------|-------------|---------------|-----|------------------------|----------------|---------|
| <b>PULSEARC® MULTI-VAPOR® METAL HALIDE LAMPS (CONTINUED)</b> |      |     |     |       |      |     |            |                      |                   |           |      |                    |                |             |               |     |                        |                |         |
| <b>250 WATTS</b>                                             |      |     |     |       |      |     |            |                      |                   |           |      |                    |                |             |               |     |                        |                |         |
| ED28                                                         | Mog  | E   | VBU | 250   | 8.25 | 5   | 26317      | MVR250/VBU/PA        | M138 or M153      | 12        |      | 15000              | 23000          | 17000       | 4200          | 65  | Clear                  | 43             | 117     |
|                                                              |      |     |     |       |      |     | 26319      | MVR250/C/VBU/PA      | M138 or M153      | 12        |      | 15000              | 21500          | 15500       | 3900          | 65  | Coated                 | 43             | 117     |
| <b>320 WATTS</b>                                             |      |     |     |       |      |     |            |                      |                   |           |      |                    |                |             |               |     |                        |                |         |
| ED28                                                         | Mog  | E   | VBU | 320   | 8.25 | 5   | 27501      | MVR320/VBU/HO/PA     | M132 or M154      | 12        |      | 20000              | 31000          | 18000       | 4000          | 65  | Clear                  | 43             | 117     |
|                                                              |      |     |     |       |      |     | 27502      | MVR320/C/VBU/HO/PA   | M132 or M154      | 12        |      | 20000              | 30000          | 16500       | 3700          | 70  | Coated                 | 43             | 117     |
|                                                              |      |     |     |       |      |     | 45666      | MVR320/VBU/XHO/PA    | M132 or M154      | 12        |      | 20000              | 34000          | 25000       | 4000          | 65  | Clear                  | 43             | 116     |
|                                                              |      |     |     |       |      |     | 45669      | MVR320/C/VBU/XHO/PA  | M132 or M154      | 12        |      | 20000              | 33000          | 23000       | 3700          | 70  | Coated                 | 43             | 116     |
| ED37                                                         | EX39 | O   | VBU | 320   | 11.5 | 7   | 46275      | MPR320/VBU/XHO/PA    | M132 or M154      | 6         |      | 20000              | 32000          | 22500       | 4000          | 65  | Clear, protected       | 43             | 120     |
|                                                              |      |     |     |       |      |     | 46276      | MPR320/C/VBU/XHO/PA  | M132 or M154      | 6         |      | 20000              | 30500          | 21500       | 3700          | 70  | Coated, protected      | 43             | 120     |
| ED 28                                                        | EX39 | O   | VBU | 320   | 8.25 | 5   | 19609      | MPR320/C/PA/ED28     | M132 or M154      | 12        |      | 20000              | 30600          | 24500       | 3700          | 70  | Coated, protected      | 43             | 120     |
| <b>350 WATTS</b>                                             |      |     |     |       |      |     |            |                      |                   |           |      |                    |                |             |               |     |                        |                |         |
| ED37                                                         | Mog  | S   | V   | 350   | 11.5 | 7   | 40376      | MVR350/VBUXHO/PA     | M131              | 6         |      | 20000              | 36500          | 27000       | 4000          | 62  | Clear                  | 43             | 117     |
|                                                              |      |     |     |       |      |     | 40377      | MVR350/CVBUXHOPA     | M131              | 6         |      | 20000              | 34500          | 25000       | 3700          | 65  | Coated                 | 43             | 117     |
|                                                              |      |     |     |       |      |     | 10202      | MPR350/VBU/PA        | M131              | 6         |      | 20000              | 35200          | 24600       | 4000          | 65  | Clear, protected       | 43             | 120     |
|                                                              |      |     |     |       |      |     | 48824      | MPR350/C/VBU/PA      | M131              | 6         |      | 20000              | 33400          | 23500       | 4000          | 70  | Coated, protected      | 43             | 120     |
|                                                              |      |     |     |       |      |     | 48825      | MPR350/C/VBU/3K/PA   | M131              | 6         |      | 20000              | 33400          | 23500       | 3400          | 70  | Coated, protected      | 43             | 120     |
| <b>400 WATTS</b>                                             |      |     |     |       |      |     |            |                      |                   |           |      |                    |                |             |               |     |                        |                |         |
| ED37                                                         | Mog  | S   | VBU | 400   | 11.5 | 7   | 45664      | MVR400/VBU/HO/PA     | M135 or M155      | 6         |      | 20000              | 41000          | 31000       | 4000          | 65  | Clear                  | 43, 49         | 121     |
|                                                              |      |     |     |       |      |     | 45665      | MVR400C/VBU/HO/PA    | M135 or M155      | 6         |      | 20000              | 40000          | 30000       | 3700          | 70  | Coated                 | 43, 49         | 121     |
|                                                              |      |     |     |       |      |     | 12642      | MVR400/VBU/XHO/PA    | M135 or M155      | 6         |      | 20000              | 44000          | 33000       | 4000          | 65  | Clear                  | 43, 49         | 121     |
|                                                              |      |     |     |       |      |     | 12644      | MVR400/C/VBU/XHO/PA  | M135 or M155      | 6         |      | 20000              | 42000          | 31500       | 3700          | 70  | Coated                 | 43, 49         | 121     |
| ED37                                                         | EX39 | O   | VBU | 400   | 11.5 | 7   | 46273      | MPR400/VBU/XHO/PA    | M135 or M155      | 6         |      | 20000              | 42000          | 29500       | 4000          | 65  | Clear, protected       | 43, 49         | 120     |
|                                                              |      |     |     |       |      |     | 46274      | MPR400/C/VBUXHO/PA   | M135 or M155      | 6         |      | 20000              | 40000          | 28000       | 3700          | 70  | Coated, protected      | 43, 49         | 120     |
| ED28                                                         | Mog  | E   | VBU | 400   | 8.25 | 5   | 46271      | MVR400/VBU/ED28/PA   | M135 or M155      | 12        |      | 20000              | 44000          | 28500       | 4000          | 65  | Clear                  | 43, 49         | 120     |
|                                                              |      |     |     |       |      |     | 46272      | MVR400/C/VBU/ED28/PA | M135 or M155      | 12        |      | 20000              | 42000          | 27500       | 3700          | 70  | Coated                 | 43, 49         | 116     |
| ED37                                                         | Mog  | E   | V   | 400   | 11.5 | 7   | 46632      | MVR400VBD/XHO/PA     | M135 or M155      | 6         |      | 20000              | 44000          | 35200       | 4000          | 65  |                        | 43, 49         | 116     |

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## High Intensity Discharge Lamps

| Bulb                                                         | Base | LET | OP  | Watts | MOL  | LCL  | Order Code | Description        | ANSI Ballast Type | Case Qty. | CBCEP | Rated Life (hours) | Lumens Initial     | Lumens Mean      | Color Temp. K | CRI | Additional Information               | Foot- notes | Warning |
|--------------------------------------------------------------|------|-----|-----|-------|------|------|------------|--------------------|-------------------|-----------|-------|--------------------|--------------------|------------------|---------------|-----|--------------------------------------|-------------|---------|
| <b>PULSEARC® MULTI-VAPOR® METAL HALIDE LAMPS (CONTINUED)</b> |      |     |     |       |      |      |            |                    |                   |           |       |                    |                    |                  |               |     |                                      |             |         |
| <b>750 WATTS</b>                                             |      |     |     |       |      |      |            |                    |                   |           |       |                    |                    |                  |               |     |                                      |             |         |
| BT37                                                         | Mog  | S   | VBU | 750   | 11.5 | 7    | 27219      | MVR750/VBU/PA      | M149              | 6         |       | 16000              | 82000              | 60000            | 4000          | 65  | Clear                                | 43, 49      | 121     |
|                                                              |      |     |     |       |      |      | 45560      | MVR750/C/VBU/PA    | M149              | 6         |       | 16000              | 72000              | 54000            | 3700          | 70  | Coated                               | 43, 49      | 121     |
| <b>1000 WATTS</b>                                            |      |     |     |       |      |      |            |                    |                   |           |       |                    |                    |                  |               |     |                                      |             |         |
| BT37                                                         | Mog  | E   | U   | 1000  | 11.3 | 7    | 10389      | MVR1000/U/BT37/PA  | M141              | 6         |       | 12000V<br>9000H    | 115000V<br>105000H | 90000V<br>82000H | 3900          | 65  | Clear                                | 43, 49      | 116     |
| <b>MULTI-VAPOR® METAL HALIDE LAMPS</b>                       |      |     |     |       |      |      |            |                    |                   |           |       |                    |                    |                  |               |     |                                      |             |         |
| <b>150 WATTS</b>                                             |      |     |     |       |      |      |            |                    |                   |           |       |                    |                    |                  |               |     |                                      |             |         |
| ED28                                                         | Mog  | E   | U   | 150   | 8.25 | 5    | 13481      | MVR150/U/WM        | M57               | 12        |       | 7500H<br>10000V    | 13500V<br>11500H   | 8500V<br>7200H   | 4000          | 65  | ➤ Clear, Watt-Miser® & #174;         |             | 117     |
|                                                              |      |     |     |       |      |      | 13490      | MVR150/C/U/WM      | M57               | 12        |       | 7500H<br>10000V    | 12800V<br>10900H   | 8000V<br>6900H   | 3700          | 70  | ➤ Coated, Watt-Miser® & #174;        |             | 117     |
| <b>175 WATTS</b>                                             |      |     |     |       |      |      |            |                    |                   |           |       |                    |                    |                  |               |     |                                      |             |         |
| BD17                                                         | Med  | E   | U   | 175   | 5.75 | 3.43 | 18902      | MVR175/U/MED       | M57               | 6         |       | 6000H<br>10000V    | 13600V<br>11700H   | 8800V<br>7400H   | 4000          | 65  | Clear                                |             | 117     |
|                                                              |      |     |     |       |      |      | 26432      | MVR175/U/MED/CP    | M57               | 4         |       | 6000H<br>10000V    | 13600V<br>11700H   | 8800V<br>7400H   | 4000          | 65  | Clear, Consumer Pack                 |             | 117     |
|                                                              |      |     |     |       |      |      | 19976      | MVR175/C/U/MED     | M57               | 6         |       | 6000H<br>10000V    | 12900V<br>11900H   | 8400V<br>7900H   | 3900          | 65  | Coated                               |             | 117     |
| ED28                                                         | Mog  | E   | U   | 175   | 8.25 | 5    | 47760      | MVR175/U           | M57               | 12        |       | 6000H<br>10000V    | 13600V<br>11700H   | 8800V<br>7400H   | 4000          | 65  | Clear                                |             | 117     |
|                                                              |      |     |     |       |      |      | 26433      | MVR175/U/CP        | M57               | 4         |       | 6000H<br>10000V    | 13600V<br>11700H   | 8800V<br>7400H   | 4000          | 65  | Clear, Consumer Pack                 |             | 117     |
|                                                              |      |     |     |       |      |      | 47761      | MVR175/C/U         | M57               | 12        |       | 6000H<br>10000V    | 12900V<br>11900H   | 8400V<br>7900H   | 3900          | 70  | Coated                               |             | 117     |
|                                                              |      |     |     |       |      |      | 17634      | MVR175/SP30/U      | M57               | 12        |       | 6000H<br>10000V    | 12000V<br>10300H   | 7600V<br>6500H   | 3000          | 70  | RE730 Phosphor Coating               |             | 117     |
| PAR38                                                        | Med  | E   |     | 175   | 5.62 |      | 25218      | MVR175/PAR38/FL/1  | M57               | 6         | 6500  | 7500V              | 12000V             | 7600V            | 3800          | 65  | Clear, One-piece PAR                 |             | 117     |
| <b>250 WATTS</b>                                             |      |     |     |       |      |      |            |                    |                   |           |       |                    |                    |                  |               |     |                                      |             |         |
| ED28                                                         | Mog  | E   | U   | 250   | 8.25 | 5    | 42729      | MVR250/U           | M58               | 12        |       | 6000H<br>10000V    | 20800V<br>19100H   | 13500V<br>12400H | 4200          | 65  | Clear                                |             | 117     |
|                                                              |      |     |     | 175   | 8.25 | 5    | 26434      | MVR250/U/CP        | M58               | 4         |       | 6000H<br>10000V    | 20800V<br>19100H   | 13500V<br>12400H | 4200          | 65  | Clear, Consumer Pack                 |             | 117     |
|                                                              |      |     |     | 250   | 8.25 | 5    | 42731      | MVR250/C/U         | M58               | 12        |       | 6000H<br>10000V    | 19800V<br>18200H   | 13000V<br>11600H | 3900          | 70  | Coated                               |             | 117     |
|                                                              |      |     |     |       |      |      | 17633      | MVR250/SP30/U      | M58               | 12        |       | 6000H<br>10000V    | 18000V<br>16600H   | 11500V<br>10600H | 3000          | 70  | RE730 Phosphor Coating               |             | 117     |
| <b>360 WATTS</b>                                             |      |     |     |       |      |      |            |                    |                   |           |       |                    |                    |                  |               |     |                                      |             |         |
| ED37                                                         | Mog  | S   | VBU | 360   | 11.5 | 7    | 13495      | MVR360/VBU/WM/HO   | M59               | 6         |       | 20000              | 36000              | 23500            | 4300          | 65  | ➤ Clear, Watt-Miser® & #174; 32, 49  |             | 121     |
|                                                              |      |     |     |       |      |      | 13496      | MVR360/C/VBU/WM/HO | M59               | 6         |       | 20000              | 35000              | 23000            | 4000          | 70  | ➤ Coated, Watt-Miser® & #174; 32, 49 |             | 121     |
| <b>400 WATTS</b>                                             |      |     |     |       |      |      |            |                    |                   |           |       |                    |                    |                  |               |     |                                      |             |         |
| ED37                                                         | Mog  | S   | U   | 400   | 11.5 | 7    | 43828      | MVR400/U           | M59               | 6         |       | 15000H<br>20000V   | 36000V<br>33100H   | 23500V<br>22100H | 4000          | 65  | Clear                                | 49          | 121     |
|                                                              |      |     |     |       |      |      | 26435      | MVR400/U/CP        | M59               | 4         |       | 15000H<br>20000V   | 36000V<br>33100H   | 23500V<br>22100H | 4000          | 65  | Clear, Consumer Pack                 | 49          | 121     |
|                                                              |      |     |     |       |      |      | 43829      | MVR400/C/U         | M59               | 6         |       | 15000H<br>20000V   | 35000V<br>32200H   | 23000V<br>19300H | 3700          | 70  | Coated                               | 49          | 121     |
|                                                              |      |     |     |       |      |      | 17632      | MVR400/SP30/U      | M59               | 6         |       | 15000H<br>20000V   | 31000V<br>28500H   | 18600V<br>17100H | 3000          | 70  | RE730 Phosphor Coating               | 49          | 121     |
| ED28                                                         | Mog  | E   | U   | 400   | 8.25 | 5    | 18904      | MVR400/U/ED28      | M59               | 12        |       | 15000H<br>20000V   | 36000V<br>33100H   | 23500V<br>22100H | 4000          | 65  | Clear, Compact Bulb                  | 49          | 117     |
|                                                              |      |     |     |       |      |      | 19979      | MVR400/C/U/ED28    | M59               | 12        |       | 15000H<br>20000V   | 35000V<br>32200H   | 23000V<br>19300H | 4000          | 65  | Coated, Compact Bulb                 | 49          | 117     |



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| Bulb                                                                    | Base   | LET | OP  | Watts | MOL   | LCL | Order Code | Description         | ANSI Ballast Type | Case Qty. | CBCP     | Rated Life (hours)            | Lumens Initial | Lumens Mean | Color Temp. K | CRI                 | Additional Information                               | Foot-notes | Warning |     |
|-------------------------------------------------------------------------|--------|-----|-----|-------|-------|-----|------------|---------------------|-------------------|-----------|----------|-------------------------------|----------------|-------------|---------------|---------------------|------------------------------------------------------|------------|---------|-----|
| MULTI-VAPOR® METAL HALIDE LAMPS (CONTINUED)                             |        |     |     |       |       |     |            |                     |                   |           |          |                               |                |             |               |                     |                                                      |            |         |     |
| 1000 WATTS                                                              |        |     |     |       |       |     |            |                     |                   |           |          |                               |                |             |               |                     |                                                      |            |         |     |
| BT56                                                                    | Mog    | S   | U   | 1000  | 15.37 | 9.5 | 41826      | MVR1000/U           | M47               | 6         |          | 11000H 108000V 15000V 100280H | 86000V 79000H  | 4000        | 65            | Clear               |                                                      | 49         | 121     |     |
|                                                                         |        |     |     |       |       |     | 41827      | MVR1000/C/U         | M47               | 6         |          | 11000H 105000V 15000V 96600H  | 80000V 73000H  | 3700        | 65            | Coated              |                                                      | 49         | 121     |     |
| BT37                                                                    | Mog    | E   | U   | 1000  | 11.5  | 7   | 18205      | MVR1000/U/BT37      | M47               | 6         |          | 9000H 115000V 12000V 105000H  | 90000V 82000H  | 3700        | 65            | Clear, Compact Bulb |                                                      | 49         | 121     |     |
| HIGH OUTPUT AND XHO MULTI-VAPOR® METAL HALIDE LAMPS                     |        |     |     |       |       |     |            |                     |                   |           |          |                               |                |             |               |                     |                                                      |            |         |     |
| 175 WATTS                                                               |        |     |     |       |       |     |            |                     |                   |           |          |                               |                |             |               |                     |                                                      |            |         |     |
| ED28                                                                    | PosMog | E   | HOR | 175   | 8.25  | 5   | 18104      | MVR175/HOR          | M57               | 12        |          | 10000                         | 15000          | 7700        | 4000          | 65                  | Clear, Position Oriented Socket Required             |            | 117     |     |
|                                                                         |        |     |     |       |       |     | 18105      | MVR175/C/HOR        | M57               | 12        |          | 10000                         | 14100          | 7500        | 3500          | 70                  | Coated, Position Oriented Socket Required            |            | 117     |     |
| 250 WATTS                                                               |        |     |     |       |       |     |            |                     |                   |           |          |                               |                |             |               |                     |                                                      |            |         |     |
| ED28                                                                    | PosMog | E   | HOR | 250   | 8.25  | 5   | 18101      | MVR250/HOR          | M58               | 12        |          | 15000                         | 21000          | 10000       | 4200          | 65                  | Clear, Position Oriented Socket Required             |            | 117     |     |
|                                                                         |        |     |     |       |       |     | 18103      | MVR250/C/HOR        | M58               | 12        |          | 15000                         | 19700          | 9400        | 3600          | 70                  | Coated, Position Oriented Socket Required            |            | 117     |     |
| 360 WATTS - WATT-MISER® ENERGY-SAVING REPLACEMENT FOR 400W METAL HALIDE |        |     |     |       |       |     |            |                     |                   |           |          |                               |                |             |               |                     |                                                      |            |         |     |
| ED37                                                                    | Mog    | S   | VBU | 360   | 11.5  | 7   | 40053      | MVR360/VBU/WM/XHO   | M59               | 6         |          | 20000                         | 37000          | 24000       | 4200          | 65                  | ➔ Clear, Watt-Miser®&#174; 32,49                     |            | 121     |     |
|                                                                         |        |     |     |       |       |     | 40055      | MVR360/C/VBU/WM/XHO | M59               | 6         |          | 20000                         | 35000          | 23000       | 4000          | 70                  | ➔ Coated, Watt-Miser®&#174; 32,49                    |            | 121     |     |
|                                                                         |        |     |     |       |       |     | 47685      | MVR360/VBU/STB/WM   | M59               | 6         |          | 20000                         | 36000          | 27000       | 4300          | 65                  | ➔ Clear, Watt-Miser®&#174; 32,49                     |            | 121     |     |
|                                                                         |        |     |     |       |       |     |            |                     |                   |           |          |                               |                |             |               |                     | StayBright®&#174;                                    |            | 121     |     |
|                                                                         |        |     |     |       |       |     | 47686      | MVR360/C/VBU/STB/WM | M59               | 6         |          | 20000                         | 35000          | 26000       | 4000          | 70                  | ➔ Coated, Watt-Miser®&#174; 32,49                    |            | 121     |     |
|                                                                         |        |     |     |       |       |     |            |                     |                   |           |          |                               |                |             |               |                     | StayBright®&#174;                                    |            |         |     |
| 400 WATTS                                                               |        |     |     |       |       |     |            |                     |                   |           |          |                               |                |             |               |                     |                                                      |            |         |     |
| ED37                                                                    | Mog    | S   | VBU | 400   | 11.5  | 7   | 26865      | MVR400/VBU/STB/HO   | M59               | 6         |          | 20000                         | 41000          | 31000       | 4000          | 65                  | Clear, StayBright®&#174; 49                          |            | 121     |     |
|                                                                         |        |     |     |       |       |     | 26866      | MVR400/CVBU/STB/HO  | M59               | 6         |          | 20000                         | 41000          | 29500       | 3700          | 70                  | Coated, StayBright®&#174; 49                         |            | 121     |     |
|                                                                         |        |     |     |       |       |     | 49657      | MVR400/VBU/HO       | M59               | 6         |          | 20000                         | 41000          | 26500       | 4000          | 65                  | Clear                                                |            | 49      | 121 |
|                                                                         |        |     |     |       |       |     | 49656      | MVR400/C/VBU/HO     | M59               | 6         |          | 20000                         | 41000          | 26500       | 3700          | 70                  | Coated                                               |            | 49      | 121 |
|                                                                         |        |     |     |       |       |     | 49655      | MVR400/VBD          | M59               | 6         |          | 20000                         | 41000          | 26500       | 4000          | 65                  | Clear                                                |            | 49      | 121 |
|                                                                         |        |     |     |       |       |     | 20931      | MVR400/SP30/VBU/HO  | M59               | 6         |          | 20000                         | 34000          | 20400       | 3200          | 70                  | RE730 Phosphor Coating, Vertical Base Up &#177;15&   |            | 49      | 121 |
|                                                                         |        |     |     |       |       |     | 13923      | MVR400/VBU/XHO      | M59               | 6         |          | 20000                         | 43000          | 28000       | 4000          | 65                  | Clear                                                |            | 49      | 121 |
|                                                                         |        |     |     |       |       |     | 13924      | MVR400/C/VBU/XHO    | M59               | 6         |          | 20000                         | 42000          | 27000       | 3700          | 70                  | Coated                                               |            | 49      | 121 |
| ED28                                                                    | Mog    | E   | VBU | 400   | 8.31  | 7   | 40335      | MVR400/VBU/ED28/HO  | M59               | 12        |          | 20000                         | 41000          | 26500       | 4000          | 65                  | Clear, Compact Bulb                                  |            | 49      | 121 |
| BT28                                                                    | Mog    | E   | HOR | 400   | 8.25  | 5   | 40201      | MVR400/HOR/BT28     | M59               | 12        |          | 20000                         | 37000          | 22000       | 4200          | 65                  | Clear, Compact Bulb                                  |            | 49      | 117 |
| BT37                                                                    | Mog    | E   | HOR | 400   | 11.5  | 7   | 26218      | MVR400/HOR/MOG      | M59               | 6         |          | 20000                         | 38000          | 22500       | 4200          | 65                  | Clear                                                |            | 49      | 117 |
|                                                                         |        |     |     |       |       |     | 26219      | MVR400/C/HOR/MOG    | M59               | 6         |          | 20000                         | 36800          | 22000       | 3900          | 70                  | Coated                                               |            | 49      | 117 |
| 1000 WATTS                                                              |        |     |     |       |       |     |            |                     |                   |           |          |                               |                |             |               |                     |                                                      |            |         |     |
| BT56                                                                    | EX39   | O   | VBU | 1000  | 15.37 | 9.5 | 41433      | MPR1000/VBU/O       | M47               | 6         |          | 12000                         | 107000         | 85500       | 3500          | 65                  | Clear, Protected                                     |            | 49      | 119 |
|                                                                         | Mog    | S   | VBU | 1000  | 15.37 | 9.5 | 44835      | MVR1000/VBU/HO      | M47               | 6         |          | 15000V 111000V                | 87000V         | 3800        | 65            | Clear               |                                                      | 49         | 121     |     |
|                                                                         |        |     |     |       |       |     | 13137      | MVR1000/C/VBU/HO    | M47               | 6         |          | 15000V 107000V                | 81500V         | 3700        | 70            | Coated              |                                                      | 49         | 121     |     |
| SPORTSLIGHTING                                                          |        |     |     |       |       |     |            |                     |                   |           |          |                               |                |             |               |                     |                                                      |            |         |     |
| 1000 WATTS                                                              |        |     |     |       |       |     |            |                     |                   |           |          |                               |                |             |               |                     |                                                      |            |         |     |
| PAR64                                                                   | G38    | E   | U   | 1000  | 6.87  |     | 29333      | SPL1000/PAR64840    | —                 |           | 11350000 | 3500                          | 63000          | 53000       | 4000          | 80                  | Clear, Narrow Spot, 6&#176;176; Beam, 1,350,000 CBCP | 38         | 124     |     |
|                                                                         |        |     |     |       |       |     | 29336      | SPL1000/PAR64/HR    | —                 |           | 11350000 | 3500                          | 63000          | 53000       | 4000          | 80                  | Clear, Narrow Spot, 6&#176;176; Beam, 1,350,000 CBCP | 38         | 124     |     |

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## High Intensity Discharge Lamps

| Bulb                                                                           | Base     | LET | OP  | Watts | MOL   | LCL  | Order Code | Description         | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information                   | Foot-notes | Warning |
|--------------------------------------------------------------------------------|----------|-----|-----|-------|-------|------|------------|---------------------|-------------------|-----------|------|--------------------|----------------|-------------|---------------|-----|------------------------------------------|------------|---------|
| <b>SPORTSLIGHTING (CONTINUED)</b>                                              |          |     |     |       |       |      |            |                     |                   |           |      |                    |                |             |               |     |                                          |            |         |
| <b>1500 WATTS</b>                                                              |          |     |     |       |       |      |            |                     |                   |           |      |                    |                |             |               |     |                                          |            |         |
| T7                                                                             | Rx7s     | E   | HOR | 1500  | 10.12 | 5    | 16920      | SPL1500/H/652       | —                 | 1         |      | 6000               | 120000         | 90000       | 5200          | 80  | Frosted                                  | 38         | 125     |
| BT56                                                                           | Mog      | E   | U   | 1500  | 15.37 | 9.5  | 47326      | MVR1500/U/SPORTS    | M48               | 6         |      | 3000H              | 170000V        | 153000V     | 4000          | 65  | Clear                                    | 17,42,49   | 117     |
|                                                                                |          |     |     |       |       |      | 37405      | MVR1500/HBU         | M48               | 6         |      | 3000H              | 165000V        | 140000V     | 3900          | 65  | Clear                                    | 16,17,49   | 117     |
|                                                                                |          |     |     |       |       |      |            |                     |                   |           |      | 3000V              | 162000H        | 133000H     |               |     |                                          |            |         |
|                                                                                |          |     |     |       |       |      |            |                     |                   |           |      | 3000V              | 155000H        | 130000H     |               |     |                                          |            |         |
| <b>1650 WATTS</b>                                                              |          |     |     |       |       |      |            |                     |                   |           |      |                    |                |             |               |     |                                          |            |         |
| BT56                                                                           | PosMog   | E   | HOR | 1650  | 15.37 | 9.5  | 25532      | MVR1650/HOR         | M112              | 6         |      | 3000               | 177000         | 145000      | 3200          | 65  | Clear, Position Oriented Socket Required | 17,49      | 117     |
| <b>2000 WATTS</b>                                                              |          |     |     |       |       |      |            |                     |                   |           |      |                    |                |             |               |     |                                          |            |         |
| T9                                                                             | #10Spade | E   | HOR | 2000  | 10    | 4.3  | 12275      | MQI2000/T9/40       | M134              | 10        |      | 3000               | 200000         | 170000      | 4000          | 65  | Clear                                    |            | 125     |
| <b>PROTECTED MULTI-VAPOR® METAL HALIDE LAMPS</b>                               |          |     |     |       |       |      |            |                     |                   |           |      |                    |                |             |               |     |                                          |            |         |
| <b>32 WATTS</b>                                                                |          |     |     |       |       |      |            |                     |                   |           |      |                    |                |             |               |     |                                          |            |         |
| ED17                                                                           | Med      | O   | VBD | 32    | 5.43  | 3.43 | 12651      | MXR32/C/VBD/O       | M100              | 6         |      | 10000              | 2400           | 1700        | 3200          | 70  | Coated, protected                        |            | 119     |
|                                                                                |          |     |     |       |       |      | 16469      | MXR32/C/VBU/O       | M100              | 6         |      | 10000              | 2400           | 1700        | 3200          | 70  | Coated, protected                        |            | 119     |
| <b>50 WATTS</b>                                                                |          |     |     |       |       |      |            |                     |                   |           |      |                    |                |             |               |     |                                          |            |         |
| ED17                                                                           | Med      | O   | U   | 50    | 5.43  | 3.43 | 45670      | MXR50/U/MED/O       | M110              | 6         |      | 10000              | 3400           | 1700        | 3500          | 70  | Clear, protected                         |            | 119     |
|                                                                                |          |     |     |       |       |      | 45671      | MXR50/C/U/MED/O     | M110              | 6         |      | 10000              | 3200           | 1500        | 3500          | 70  | Coated, protected                        |            | 119     |
| <b>70 WATTS</b>                                                                |          |     |     |       |       |      |            |                     |                   |           |      |                    |                |             |               |     |                                          |            |         |
| ED17                                                                           | Med      | O   | U   | 70    | 5.43  | 3.43 | 12377      | MXR70/U/MED/O       | M98               | 6         |      | 12000              | 5500           | 3500        | 3200          | 70  | Clear, protected                         |            | 119     |
|                                                                                |          |     |     |       |       |      | 12577      | MXR70/C/U/MED/O     | M98               | 6         |      | 12000              | 5300           | 3300        | 3200          | 70  | Coated, protected                        |            | 119     |
| <b>100 WATTS</b>                                                               |          |     |     |       |       |      |            |                     |                   |           |      |                    |                |             |               |     |                                          |            |         |
| ED17                                                                           | Med      | O   | U   | 100   | 5.43  | 3.43 | 12381      | MXR100/U/MED/O      | M90               | 6         |      | 15000              | 9000           | 6200        | 3200          | 70  | Clear, protected                         |            | 119     |
|                                                                                |          |     |     |       |       |      | 12579      | MXR100/C/U/MED/O    | M90               | 6         |      | 15000              | 8500           | 5900        | 3200          | 70  | Coated, protected                        |            | 119     |
| <b>150 WATTS</b>                                                               |          |     |     |       |       |      |            |                     |                   |           |      |                    |                |             |               |     |                                          |            |         |
| ED17                                                                           | Med      | O   | U   | 150   | 5.43  | 3.43 | 45683      | MXR150/U/MED/O      | M102              | 6         |      | 15000              | 12500          | 8600        | 3500          | 70  | Clear, protected                         |            | 119     |
|                                                                                |          |     |     |       |       |      | 45688      | MXR150/C/U/MED/O    | M102              | 6         |      | 15000              | 12000          | 8300        | 3500          | 70  | Coated, protected                        |            | 119     |
| <b>175 WATTS</b>                                                               |          |     |     |       |       |      |            |                     |                   |           |      |                    |                |             |               |     |                                          |            |         |
| BT28                                                                           | EX39     | O   | VBU | 175   | 8.25  | 5    | 49470      | MPR175/VBU/O        | M57               | 6         |      | 10000              | 14400          | 10200       | 4000          | 65  | Clear, protected                         |            | 119     |
|                                                                                |          |     |     |       |       |      | 11649      | MPR175/C/VBU/O      | M57               | 6         |      | 10000              | 12800          | 7800        | 3800          | 70  | Coated, protected                        |            | 119     |
| <b>250 WATTS</b>                                                               |          |     |     |       |       |      |            |                     |                   |           |      |                    |                |             |               |     |                                          |            |         |
| BT28                                                                           | EX39     | O   | VBU | 250   | 8.25  | 5    | 49471      | MPR250/VBU/O        | M58               | 6         |      | 10000              | 23000          | 17000       | 4000          | 65  | Clear, protected                         |            | 119     |
|                                                                                |          |     |     |       |       |      | 11650      | MPR250/C/VBU/O      | M58               | 6         |      | 10000              | 20500          | 14700       | 3800          | 70  | Coated, protected                        |            | 119     |
| <b>320 WATTS</b>                                                               |          |     |     |       |       |      |            |                     |                   |           |      |                    |                |             |               |     |                                          |            |         |
| ED37                                                                           | EX39     | O   | VBU | 320   | 11.5  | 7    | 46275      | MPR320/VBU/XHO/PA   | M132 or 6 M154    |           |      | 20000              | 32000          | 22500       | 4000          | 65  | Clear, protected                         |            | 120     |
|                                                                                |          |     |     |       |       |      | 46276      | MPR320/C/VBU/XHO/PA | M132 or 6 M154    |           |      | 20000              | 30500          | 21500       | 3700          | 70  | Coated, protected                        |            | 120     |
| ED 28                                                                          | EX39     | O   | VBU | 320   | 8.25  | 5    | 19609      | MPR320/C/PA/ED28    | M132 or 12 M154   |           |      | 20000              | 30600          | 24500       | 3700          | 70  | Coated, protected                        | 43         | 120     |
| <b>350 WATTS</b>                                                               |          |     |     |       |       |      |            |                     |                   |           |      |                    |                |             |               |     |                                          |            |         |
| ED37                                                                           | EX39     | O   | VBU | 350   | 11.5  | 7    | 10202      | MPR350/VBU/PA       | M131              | 6         |      | 20000              | 35200          | 28200       | 4000          | 65  | Clear, protected                         | 43         | 120     |
|                                                                                |          |     |     |       |       |      | 48824      | MPR350/C/VBU/PA     | M131              | 6         |      | 20000              | 33400          | 26700       | 3700          | 70  | Coated, protected                        | 43         | 120     |
|                                                                                |          |     |     |       |       |      | 48825      | MPR350/C/VBU/3K/PA  | M131              | 6         |      | 20000              | 33400          | 26700       | 3200          | 70  | Coated, protected                        | 43         | 120     |
| <b>360 WATTS - WATT-MISER® ENERGY-SAVING REPLACEMENT FOR 400W METAL HALIDE</b> |          |     |     |       |       |      |            |                     |                   |           |      |                    |                |             |               |     |                                          |            |         |
| ED37                                                                           | EX39     | O   | VBU | 360   | 11.5  | 7    | 40056      | MPR360/VBU/WM/HO/O  | M59               | 6         |      | 20000              | 36000          | 23500       | 4000          | 65  | Clear, protected                         | 32,49      | 119     |
|                                                                                |          |     |     |       |       |      | 11685      | MPR360CVBUWMHO/O    | M59               | 6         |      | 20000              | 35000          | 22500       | 3700          | 70  | Coated, protected                        | 32,49      | 119     |



# High Intensity Discharge Lamps

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| Bulb                                                                   | Base       | LET | OP  | Watts | MOL   | LCL  | Order Code | Description        | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial   | Lumens Mean      | Color Temp. K | CRI | Additional Information                                     | Foot-notes | Warning |
|------------------------------------------------------------------------|------------|-----|-----|-------|-------|------|------------|--------------------|-------------------|-----------|------|--------------------|------------------|------------------|---------------|-----|------------------------------------------------------------|------------|---------|
| <b>PROTECTED MULTI-VAPOR® METAL HALIDE LAMPS (CONTINUED)</b>           |            |     |     |       |       |      |            |                    |                   |           |      |                    |                  |                  |               |     |                                                            |            |         |
| <b>400 WATTS</b>                                                       |            |     |     |       |       |      |            |                    |                   |           |      |                    |                  |                  |               |     |                                                            |            |         |
| ED37                                                                   | EX39       | 0   | VBU | 400   | 11.5  | 7    | 18708      | MPR400/VBU/HO/O    | M59               | 6         |      | 20000              | 40000            | 26000            | 3800          | 65  | Clear, protected                                           | 49         | 119     |
|                                                                        |            |     |     |       |       |      | 13582      | MPR400/C/VBU/HO/O  | M59               | 6         |      | 20000              | 38000            | 25000            | 3600          | 70  | Coated, protected                                          | 49         | 119     |
|                                                                        |            |     |     |       |       |      | 46273      | MPR400/VBU/XHO/PA  | M135 or 6<br>M155 | 6         |      | 20000              | 42000            | 29500            | 4000          | 65  | Clear, protected                                           | 43,49      | 120     |
|                                                                        |            |     |     |       |       |      | 46274      | MPR400/C/VBUXHO/PA | M135 or 6<br>M155 | 6         |      | 20000              | 40000            | 28000            | 3700          | 70  | Coated, protected                                          | 43,49      | 120     |
| <b>1000 WATTS</b>                                                      |            |     |     |       |       |      |            |                    |                   |           |      |                    |                  |                  |               |     |                                                            |            |         |
| BT56                                                                   | EX39       | 0   | VBU | 1000  | 15.37 | 9.5  | 41433      | MPR1000/VBU/O      | M47               | 6         |      | 12000              | 107000           | 85500            | 3500          | 65  | Clear, Protected                                           | 49         | 119     |
| <b>CHROMAFIT™ MULTI-VAPOR® METAL HALIDE LAMPS (HPS RETROFIT LAMPS)</b> |            |     |     |       |       |      |            |                    |                   |           |      |                    |                  |                  |               |     |                                                            |            |         |
| <b>250 WATTS</b>                                                       |            |     |     |       |       |      |            |                    |                   |           |      |                    |                  |                  |               |     |                                                            |            |         |
| ED28                                                                   | Mog        | E   | VBU | 250   | 8.25  | 5.75 | 12762      | MVR250/VBU/R       | S50               | 12        |      | 10000              | 18500            | 13900            | 4500          | 65  | Clear, HPS Retrofit                                        | 50         | 116     |
|                                                                        |            |     |     |       |       |      | 12769      | MVR250/C/VBU/R     | S50               | 12        |      | 10000              | 18000            | 13000            | 4000          | 70  | Coated, HPS Retrofit                                       | 50         | 116     |
| <b>400 WATTS</b>                                                       |            |     |     |       |       |      |            |                    |                   |           |      |                    |                  |                  |               |     |                                                            |            |         |
| ED28                                                                   | Mog        | E   | U   | 400   | 8.31  | 5    | 26851      | MVR400/U/ED28/R    | S51               | 12        |      | 15000H<br>20000V   | 36000V<br>33100H | 22000V<br>20200H | 4000          | 65  | Clear, HPS Retrofit,<br>Compact Bulb                       | 49,50      | 116     |
| ED37                                                                   | Mog        | S   | VBU | 400   | 11.5  | 5.75 | 12770      | MVR400/VBU/R       | S51               | 6         |      | 20000              | 37600            | 22600            | 4500          | 65  | Clear, HPS Retrofit                                        | 49,50      | 122     |
|                                                                        |            |     |     |       |       |      | 12772      | MVR400/C/VBU/R     | S51               | 6         |      | 20000              | 35700            | 21400            | 4000          | 70  | Coated, HPS Retrofit                                       | 49,50      | 122     |
| <b>I-LINE MULTI-VAPOR® METAL HALIDE LAMPS (MERCURY RETROFIT LAMPS)</b> |            |     |     |       |       |      |            |                    |                   |           |      |                    |                  |                  |               |     |                                                            |            |         |
| <b>325 WATTS</b>                                                       |            |     |     |       |       |      |            |                    |                   |           |      |                    |                  |                  |               |     |                                                            |            |         |
| ED37                                                                   | Mog        | S   | U   | 325   | 11.5  | 7    | 10687      | MVR325/I/U/WM      | H33               | 6         |      | 10000H<br>20000V   | 28000V<br>25800H | 13300V<br>12200H | 4000          | 65  | ➔ Clear, Retrofit for 400W<br>Mercury, Watt-Miser®&#174;   |            | 121     |
|                                                                        |            |     |     |       |       |      | 10688      | MVR325/C/I/U/WM    | H33               | 6         |      | 10000H<br>20000V   | 26300V<br>24200H | 12900V<br>11800H | 3700          | 70  | ☞ Coated, Retrofit for 400W<br>Mercury, Watt-Miser®&#174;  |            | 121     |
| <b>400 WATTS</b>                                                       |            |     |     |       |       |      |            |                    |                   |           |      |                    |                  |                  |               |     |                                                            |            |         |
| ED37                                                                   | Mog        | S   | U   | 400   | 11.5  | 7    | 43817      | MVR400/I/U         | H33 or 6<br>M59   | 6         |      | 10000H<br>15000V   | 36000V<br>33100H | 24000V<br>22100H | 4000          | 65  | Clear, Retrofit for<br>400W Mercury                        | 49         | 121     |
|                                                                        |            |     |     |       |       |      | 43818      | MVR400/C/I/U       | H33 or 6<br>M59   | 6         |      | 10000H<br>15000V   | 35000V<br>32200H | 21000V<br>19300H | 3700          | 70  | Coated, Retrofit for<br>400W Mercury                       | 49         | 121     |
| <b>950 WATTS ENERGY-SAVING REPLACEMENT FOR 1000W MERCURY</b>           |            |     |     |       |       |      |            |                    |                   |           |      |                    |                  |                  |               |     |                                                            |            |         |
| BT56                                                                   | Mog        | S   | VBU | 950   | 15.06 | 9.5  | 39097      | MVR950/I/VBU       | H36 or 6<br>M47   | 6         |      | 12000              | 100000           | 62900            | 3800          | 65  | ➔ Coated, Retrofit for<br>1000W Mercury, Watt-Miser®&#174; | 49         | 121     |
| <b>SAF-T-GARD® SELF-EXTINGUISHING MULTI-VAPOR® LAMPS</b>               |            |     |     |       |       |      |            |                    |                   |           |      |                    |                  |                  |               |     |                                                            |            |         |
| <b>400 WATTS</b>                                                       |            |     |     |       |       |      |            |                    |                   |           |      |                    |                  |                  |               |     |                                                            |            |         |
| ED37                                                                   | Mog        | S   | U   | 400   | 11.5  | 7    | 11146      | MVT400/I/U         | H33 or 6<br>M59   | 6         |      | 610000H<br>15000V  | 36000V<br>33100H | 23500V<br>22100H | 4000          | 65  | Clear, Retrofit for<br>400W Mercury                        | 49         | 123     |
|                                                                        |            |     |     |       |       |      | 11119      | MVT400/C/I/U       | H33 or 6<br>M59   | 6         |      | 10000H<br>15000V   | 35000V<br>32200H | 23000V<br>19300H | 3700          | 70  | Coated, Retrofit for 49<br>400W Mercury                    |            | 123     |
|                                                                        |            |     |     |       |       |      | 11144      | MVT400/VBU         | M59               | 6         |      | 20000              | 41000            | 26500            | 4000          | 65  | Clear                                                      | 49         | 123     |
|                                                                        |            |     |     |       |       |      | 11145      | MVT400/C/VBU       | M59               | 6         |      | 20000              | 41000            | 26500            | 3700          | 70  | Coated                                                     | 49         | 123     |
| <b>ARCSTREAM® METAL HALIDE LAMPS</b>                                   |            |     |     |       |       |      |            |                    |                   |           |      |                    |                  |                  |               |     |                                                            |            |         |
| <b>70 WATTS</b>                                                        |            |     |     |       |       |      |            |                    |                   |           |      |                    |                  |                  |               |     |                                                            |            |         |
| T6                                                                     | R7s        | E   | HOR | 70    | 4.68  |      | 34530      | ARC70/TD/UVC/730   | M85               | 12        |      | 6000               | 6000             | 4800             | 3000          | 75  | Clear                                                      |            | 103     |
|                                                                        |            |     |     |       |       |      | 34536      | ARC70/TD/UVC/743   | M85               | 12        |      | 6000               | 6000             | 4800             | 4300          | 75  | Clear                                                      |            | 103     |
| <b>150 WATTS</b>                                                       |            |     |     |       |       |      |            |                    |                   |           |      |                    |                  |                  |               |     |                                                            |            |         |
| T7                                                                     | R7s        | E   | HOR | 150   | 5.37  |      | 34527      | ARC150/TD/UVC/730  | M81               | 12        |      | 6000               | 13000            | 11000            | 3000          | 75  | Clear                                                      |            | 103     |
|                                                                        |            |     |     |       |       |      | 34535      | ARC150/TD/UVC/742  | M81               | 12        |      | 6000               | 12000            | 10000            | 4200          | 75  | Clear                                                      |            | 103     |
| T6                                                                     | BiPinG12   | E   | U   | 150   | 3     | 2.25 | 21053      | ARC150T/U/830G12   | M81               | 10        |      | 6000               | 12000            | 9500             | 3000          | 80  | Clear                                                      |            | 102     |
|                                                                        |            |     |     |       |       |      | 21054      | ARC150T/U/840G12   | M81               | 10        |      | 6000               | 11500            | 10500            | 4000          | 80  | Clear                                                      |            | 102     |
| CAP                                                                    | BiPinGY9.5 | E   | U   | 150   | 1.62  | 1.12 | 34813      | CSS150/CAP/50      | M81               | 10        |      | 1000               | 10000            | 8000             | 5000          | 80  | Clear, Disco Lamp                                          |            | 102     |

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## High Intensity Discharge Lamps

| Bulb                                             | Base | LET | OP  | Watts | MOL  | LCL  | Order Code | Description      | ANSI Ballast Type | Case Qty. | CBP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information | Foot-<br>notes | Warning |
|--------------------------------------------------|------|-----|-----|-------|------|------|------------|------------------|-------------------|-----------|-----|--------------------|----------------|-------------|---------------|-----|------------------------|----------------|---------|
| <b>ARCSTREAM® METAL HALIDE LAMPS (CONTINUED)</b> |      |     |     |       |      |      |            |                  |                   |           |     |                    |                |             |               |     |                        |                |         |
| <b>250 WATTS</b>                                 |      |     |     |       |      |      |            |                  |                   |           |     |                    |                |             |               |     |                        |                |         |
| T15                                              | Mog  | E   | HOR | 250   | 8.37 | 5.62 | 26683      | ARC250/T/H/960/E | M80               | 12        |     | 10000              | 19000          | 13300       | 6000          | 90  | Clear, Daylight Color  | 111            |         |
| <b>400 WATTS</b>                                 |      |     |     |       |      |      |            |                  |                   |           |     |                    |                |             |               |     |                        |                |         |
| ED18                                             | Mog  | E   | HOR | 400   | 10.5 | 6.75 | 26685      | KRC400/T/H/960/E | M135              | 12        |     | 10000              | 25000          | 17500       | 6000          | 90  | Clear, Daylight Color  | 49             | 110     |
| <b>LUCALOX® HIGH PRESSURE SODIUM LAMPS</b>       |      |     |     |       |      |      |            |                  |                   |           |     |                    |                |             |               |     |                        |                |         |
| <b>35 WATTS</b>                                  |      |     |     |       |      |      |            |                  |                   |           |     |                    |                |             |               |     |                        |                |         |
| B17                                              | Med  | O   | U   | 35    | 5.43 | 3.43 | 11668      | LU35/MED         | S76               | 6         |     | 16000              | 2250           | 2025        | 1900          | 22  | Clear                  |                | 111     |
|                                                  |      |     |     |       |      |      | 26420      | LU35/MED/CP      | S76               | 4         |     | 16000              | 2250           | 2025        | 1900          | 22  | Clear, Consumer Pack   |                | 111     |
|                                                  |      |     |     |       |      |      | 11669      | LU35/D/MED       | S76               | 6         |     | 16000              | 2150           | 1935        | 1900          | 22  | Diffuse                |                | 111     |
| <b>50 WATTS</b>                                  |      |     |     |       |      |      |            |                  |                   |           |     |                    |                |             |               |     |                        |                |         |
| B17                                              | Med  | O   | U   | 50    | 5.43 | 3.43 | 11345      | LU50/MED         | S68               | 6         |     | 24000+             | 4000           | 3600        | 1900          | 22  | Clear                  |                | 111     |
|                                                  |      |     |     |       |      |      | 26421      | LU50/MED/CP      | S68               | 4         |     | 24000+             | 4000           | 3600        | 1900          | 22  | Clear, Consumer Pack   |                | 111     |
|                                                  |      |     |     |       |      |      | 11347      | LU50/D/MED       | S68               | 6         |     | 24000+             | 3800           | 3420        | 1900          | 22  | Diffuse                |                | 111     |
| ED23.5                                           | Mog  | O   | U   | 50    | 7.75 | 5    | 44975      | LU50             | S68               | 12        |     | 24000+             | 4000           | 3600        | 1900          | 22  | Clear                  |                | 111     |
|                                                  |      |     |     |       |      |      | 26425      | LU50/CP          | S68               | 4         |     | 24000+             | 4000           | 3600        | 1900          | 22  | Clear, Consumer Pack   |                | 111     |
|                                                  |      |     |     |       |      |      | 45006      | LU50/D           | S68               | 12        |     | 24000+             | 3800           | 3420        | 1900          | 22  | Diffuse                |                | 111     |
| <b>70 WATTS</b>                                  |      |     |     |       |      |      |            |                  |                   |           |     |                    |                |             |               |     |                        |                |         |
| B17                                              | Med  | O   | U   | 70    | 5.43 | 3.43 | 11339      | LU70/MED         | S62               | 6         |     | 24000+             | 6400           | 5450        | 1900          | 22  | Clear                  |                | 111     |
|                                                  |      |     |     |       |      |      | 26422      | LU70/MED/CP      | S62               | 4         |     | 24000+             | 6400           | 5450        | 1900          | 22  | Clear, Consumer Pack   |                | 111     |
|                                                  |      |     |     |       |      |      | 11340      | LU70/D/MED       | S62               | 6         |     | 24000+             | 5950           | 5050        | 1900          | 22  | Diffuse                |                | 111     |
| ED23.5                                           | Mog  | O   | U   | 70    | 7.75 | 5    | 44033      | LU70             | S62               | 12        |     | 24000+             | 6400           | 5450        | 1900          | 22  | Clear                  |                | 111     |
|                                                  |      |     |     |       |      |      | 26426      | LU70/CP          | S62               | 4         |     | 24000+             | 6400           | 5450        | 1900          | 22  | Clear, Consumer Pack   |                | 111     |
|                                                  |      |     |     |       |      |      | 44035      | LU70/D           | S62               | 12        |     | 24000+             | 5950           | 5050        | 1900          | 22  | Diffuse                |                | 111     |
| <b>100 WATTS</b>                                 |      |     |     |       |      |      |            |                  |                   |           |     |                    |                |             |               |     |                        |                |         |
| B17                                              | Med  | O   | U   | 100   | 5.5  | 3.43 | 13250      | LU100/MED        | S54               | 6         |     | 24000+             | 9500           | 8550        | 2000          | 22  | Clear                  |                | 111     |
|                                                  |      |     |     |       |      |      | 26423      | LU100/MED/CP     | S54               | 4         |     | 24000+             | 9500           | 8550        | 2000          | 22  | Clear, Consumer Pack   |                | 111     |
|                                                  |      |     |     |       |      |      | 13251      | LU100/D/MED      | S54               | 6         |     | 24000+             | 8800           | 7920        | 2000          | 22  | Diffuse                |                | 111     |
| ED23.5                                           | Mog  | O   | U   | 100   | 7.75 | 5    | 44037      | LU100            | S54               | 12        |     | 24000+             | 9500           | 8550        | 2000          | 22  | Clear                  |                | 111     |
|                                                  |      |     |     |       |      |      | 26427      | LU100/CP         | S54               | 4         |     | 24000+             | 9500           | 8550        | 2000          | 22  | Clear, Consumer Pack   |                | 111     |
|                                                  |      |     |     |       |      |      | 44038      | LU100/D          | S54               | 12        |     | 24000+             | 8800           | 7920        | 2000          | 22  | Diffuse                |                | 111     |
| <b>150 WATTS</b>                                 |      |     |     |       |      |      |            |                  |                   |           |     |                    |                |             |               |     |                        |                |         |
| B17                                              | Med  | O   | U   | 150   | 5.75 | 3.5  | 13252      | LU150/MED        | S55               | 6         |     | 24000+             | 16000          | 14400       | 2000          | 22  | Clear                  |                | 111     |
|                                                  |      |     |     |       |      |      | 26424      | LU150/MED/CP     | S55               | 4         |     | 24000+             | 16000          | 14400       | 2000          | 22  | Clear, Consumer Pack   |                | 111     |
|                                                  |      |     |     |       |      |      | 13253      | LU150/D/MED      | S55               | 6         |     | 24000+             | 15000          | 13500       | 2000          | 22  | Diffuse                |                | 111     |
| ED23.5                                           | Mog  | O   | U   | 150   | 7.75 | 5    | 44043      | LU150/55         | S55               | 12        |     | 24000+             | 16000          | 14400       | 2000          | 22  | Clear                  |                | 111     |
|                                                  |      |     |     |       |      |      | 26429      | LU150/55/CP      | S55               | 4         |     | 24000+             | 16000          | 14400       | 2000          | 22  | Clear, Consumer Pack   |                | 111     |
|                                                  |      |     |     |       |      |      | 44045      | LU150/55/D       | S55               | 12        |     | 24000+             | 15000          | 13500       | 2000          | 22  | Diffuse                |                | 111     |
| ED28                                             | Mog  | O   | U   | 150   | 8.31 | 5    | 44243      | LU150/100(ED28)  | S56               | 12        |     | 24000+             | 15000          | 13500       | 2000          | 22  | Clear                  |                | 111     |
| <b>200 WATTS</b>                                 |      |     |     |       |      |      |            |                  |                   |           |     |                    |                |             |               |     |                        |                |         |
| ED18                                             | Mog  | O   | U   | 200   | 9.75 | 5.75 | 44206      | LU200            | S66               | 12        |     | 24000+             | 22000          | 19800       | 2100          | 22  | Clear                  |                | 111     |
| <b>250 WATTS</b>                                 |      |     |     |       |      |      |            |                  |                   |           |     |                    |                |             |               |     |                        |                |         |
| ED18                                             | Mog  | O   | U   | 250   | 9.75 | 5.75 | 44047      | LU250            | S50               | 12        |     | 24000+             | 28000          | 25200       | 2100          | 22  | Clear                  |                | 111     |
|                                                  |      |     |     |       |      |      | 26430      | LU250/CP         | S50               | 4         |     | 24000+             | 28000          | 25200       | 2100          | 22  | Clear, Consumer Pack   |                | 111     |
|                                                  |      |     |     |       | 9    | 5    | 44051      | LU250/D          | S50               | 12        |     | 24000+             | 26000          | 23400       | 2100          | 22  | Diffuse                |                | 111     |
| <b>310 WATTS</b>                                 |      |     |     |       |      |      |            |                  |                   |           |     |                    |                |             |               |     |                        |                |         |
| ED18                                             | Mog  | O   | U   | 310   | 9.75 | 5.75 | 44053      | LU310            | S67               | 12        |     | 24000+             | 37000          | 33300       | 2100          | 22  | Clear                  |                | 111     |



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| Bulb                                                                      | Base | LET | OP  | Watts | MOL   | LCL  | Order Code   | Description            | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information                 | Foot-notes     | Warning |
|---------------------------------------------------------------------------|------|-----|-----|-------|-------|------|--------------|------------------------|-------------------|-----------|------|--------------------|----------------|-------------|---------------|-----|----------------------------------------|----------------|---------|
| <b>LUCALOX® HIGH PRESSURE SODIUM LAMPS (CONTINUED)</b>                    |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| <b>400 WATTS</b>                                                          |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| ED18                                                                      | Mog  | 0   | U   | 400   | 9.75  | 5.75 | <b>44054</b> | <b>LU400</b>           | S51               | 12        |      | 24000+             | 51000          | 45000       | 2100          | 22  | Clear                                  | 49             | 111     |
|                                                                           |      |     |     |       |       |      | <b>26431</b> | <b>LU400/CP</b>        | S51               | 4         |      | 24000+             | 51000          | 45000       | 2100          | 22  | Clear, Consumer Pack                   | 49             | 111     |
| ED37                                                                      | Mog  | 0   | U   | 400   | 11.31 | 7    | <b>44056</b> | <b>LU400/D</b>         | S51               | 6         |      | 24000+             | 47500          | 42750       | 2100          | 22  | Diffuse                                | 49             | 111     |
| T7                                                                        | Rx7s | 0   | HOR | 400   | 10.12 |      | <b>30244</b> | <b>LU400/TD</b>        | S51               | 10        |      | 24000              | 43000          | 37300       | 2000          | 25  | Clear, Double-ended, Horizontal Burn   | &#177;20&#176; | 111     |
| <b>600 WATTS</b>                                                          |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| T15                                                                       | Mog  | 0   | U   | 600   | 11.06 | 6.62 | <b>27187</b> | <b>LU600/T</b>         | S106              | 12        |      | 24000+             | 90000          | 81000       | 2000          | 22  | Clear                                  | 49             | 112     |
| <b>750 WATTS</b>                                                          |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| ED37                                                                      | Mog  | 0   | U   | 750   | 11.5  | 6.75 | <b>14682</b> | <b>LU750</b>           | S111              | 6         |      | 24000+             | 110000         | 99000       | 2100          | 22  | Clear                                  | 49             | 112     |
| <b>1000 WATTS</b>                                                         |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| E25                                                                       | Mog  | 0   | U   | 1000  | 15.06 | 8.75 | <b>44058</b> | <b>LU1000/ECO</b>      | S52               | 6         |      | 24000+             | 130000         | 126000      | 2100          | 22  | Clear                                  | 49             | 111     |
| T7                                                                        | Rx7s | 0   | HOR | 1000  | 13.18 |      | <b>30246</b> | <b>LU1000/TD</b>       | S52               | 10        |      | 24000              | 137500         | 118200      | 2000          | 25  | Clear, Double-ended, Horizontal Burn   | &#177;20&#176; | 111     |
| <b>STANDBY LONGLIFE LUCALOX® LAMPS</b>                                    |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| <b>70 WATTS</b>                                                           |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| ED23.5                                                                    | Mog  | 0   | U   | 70    | 7.75  | 5    | <b>19264</b> | <b>LU70/SBY/XL</b>     | S62               | 12        |      | 40000              | 6400           | 5050        | 2000          | 22  | Clear, Standby Longlife, Dual Arc Tube |                | 111     |
| <b>100 WATTS</b>                                                          |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| ED23.5                                                                    | Mog  | 0   | U   | 100   | 7.75  | 5    | <b>19265</b> | <b>LU100/SBY/XL</b>    | S54               | 12        |      | 40000              | 9500           | 8190        | 2000          | 22  | Clear, Standby Longlife, Dual Arc Tube |                | 111     |
| <b>150 WATTS</b>                                                          |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| ED23.5                                                                    | Mog  | 0   | U   | 150   | 7.75  | 5    | <b>19266</b> | <b>LU150/55/SBY/XL</b> | S55               | 12        |      | 40000              | 16000          | 14000       | 2000          | 22  | Clear, Standby Longlife, Dual Arc Tube |                | 111     |
| <b>200 WATTS</b>                                                          |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| ED18                                                                      | Mog  | 0   | U   | 200   | 9.75  | 5.75 | <b>23431</b> | <b>LU200/SBY/XL</b>    | S66               | 12        |      | 40000              | 21500          | 18150       | 2000          | 22  | Clear, Standby Longlife, Dual Arc Tube |                | 111     |
| <b>250 WATTS</b>                                                          |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| ED18                                                                      | Mog  | 0   | U   | 250   | 9.75  | 5.75 | <b>19270</b> | <b>LU250/SBY/XL</b>    | S50               | 12        |      | 40000              | 27500          | 24750       | 2000          | 22  | Clear, Standby Longlife, Dual Arc Tube |                | 111     |
| <b>400 WATTS</b>                                                          |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| ED18                                                                      | Mog  | 0   | U   | 400   | 9.75  | 5.75 | <b>19272</b> | <b>LU400/SBY/XL</b>    | S51               | 12        |      | 40000              | 50000          | 45000       | 2000          | 22  | Clear, Standby Longlife, Dual Arc Tube | 49             | 111     |
| <b>1000 WATTS</b>                                                         |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| E25                                                                       | Mog  | 0   | U   | 1000  | 15.06 | 8.75 | <b>27185</b> | <b>LU1000/SBY/XL</b>   | S52               | 6         |      | 40000              | 127000         | 115000      | 2100          | 22  | Clear, Standby Longlife, Dual Arc Tube | 49             | 111     |
| <b>ECOLUX® NC NON-CYCLING HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT)</b> |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| <b>70 WATTS</b>                                                           |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| ED23.5                                                                    | Mog  | 0   | U   | 70    | 7.75  | 5    | <b>14672</b> | <b>LU70/ECO/NC</b>     | S62               | 12        |      | 30000              | 6300           | 5670        | 1900          | 23  | Clear, Non-Cycling, TCLP Compliant     |                | 111     |
| <b>100 WATTS</b>                                                          |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| ED23.5                                                                    | Mog  | 0   | U   | 100   | 7.75  | 5    | <b>14673</b> | <b>LU100/ECO/NC</b>    | S54               | 12        |      | 30000              | 10500          | 9450        | 2000          | 23  | Clear, Non-Cycling, TCLP Compliant     |                | 111     |
| <b>150 WATTS</b>                                                          |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| ED23.5                                                                    | Mog  | 0   | U   | 150   | 7.75  | 5    | <b>40390</b> | <b>LU150/ECO/NC</b>    | S55               | 12        |      | 30000              | 16000          | 14400       | 2000          | 23  | Clear, Non-Cycling, TCLP Compliant     |                | 111     |
| <b>200 WATTS</b>                                                          |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| ET18                                                                      | Mog  | 0   | U   | 200   | 9.75  | 5.75 | <b>45059</b> | <b>LU200/ECO/NC</b>    | S66               | 20        |      | 30000              | 22000          | 19800       | 2100          | 22  | Clear, Non-Cycling, TCLP Compliant     |                | 111     |
| <b>250 WATTS</b>                                                          |      |     |     |       |       |      |              |                        |                   |           |      |                    |                |             |               |     |                                        |                |         |
| ED18                                                                      | Mog  | 0   | U   | 250   | 9.75  | 5.75 | <b>14674</b> | <b>LU250/ECO/NC</b>    | S50               | 12        |      | 30000              | 29000          | 26100       | 2000          | 30  | Clear, Non-Cycling, TCLP Compliant     |                | 111     |

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| Bulb                                                                                  | Base  | LET | OP | Watts | MOL   | LCL  | Order Code | Description  | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information                            | Foot- notes | Warning |
|---------------------------------------------------------------------------------------|-------|-----|----|-------|-------|------|------------|--------------|-------------------|-----------|------|--------------------|----------------|-------------|---------------|-----|---------------------------------------------------|-------------|---------|
| <b>ECOLUX® NC NON-CYCLING HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT) (CONTINUED)</b> |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| <b>400 WATTS</b>                                                                      |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| ED18                                                                                  | Mog   | O   | U  | 400   | 9.75  | 5.75 | 14675      | LU400/ECO/NC | S51               | 12        |      | 30000              | 54000          | 48600       | 2100          | 30  | Clear, Non-Cycling, TCLP Compliant                | 49          | 111     |
| <b>ECOLUX® HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT)</b>                            |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| <b>70 WATTS</b>                                                                       |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| ED23.5                                                                                | Mog   | O   | U  | 70    | 7.75  | 5    | 45760      | LU70/ECO     | S62               | 12        |      | 24000+             | 6400           | 5450        | 1900          | 22  | Clear, TCLP Compliant                             |             | 111     |
| <b>100 WATTS</b>                                                                      |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| ED23.5                                                                                | Mog   | O   | U  | 100   | 7.75  | 5    | 45761      | LU100/ECO    | S54               | 12        |      | 24000+             | 9500           | 8550        | 2000          | 22  | Clear, TCLP Compliant                             |             | 111     |
| <b>150 WATTS</b>                                                                      |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| ED23.5                                                                                | Mog   | O   | U  | 150   | 7.75  | 5    | 45762      | LU150/55/ECO | S55               | 12        |      | 24000+             | 16000          | 14400       | 2000          | 22  | Clear, TCLP Compliant                             |             | 111     |
| <b>200 WATTS</b>                                                                      |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| ED18                                                                                  | Mog   | O   | U  | 200   | 9.75  | 5.75 | 45763      | LU200/ECO    | S66               | 12        |      | 24000+             | 22000          | 19800       | 2100          | 22  | Clear, TCLP Compliant                             |             | 111     |
| <b>250 WATTS</b>                                                                      |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| ED18                                                                                  | Mog   | O   | U  | 250   | 9.75  | 5.75 | 45764      | LU250/ECO    | S50               | 12        |      | 24000+             | 28000          | 25200       | 2100          | 22  | Clear, TCLP Compliant                             |             | 111     |
| <b>400 WATTS</b>                                                                      |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| ED18                                                                                  | Mog   | O   | U  | 400   | 9.75  | 5.75 | 45765      | LU400/ECO    | S51               | 12        |      | 24000+             | 51000          | 45000       | 2100          | 22  | Clear, TCLP Compliant                             | 49          | 111     |
| <b>1000 WATTS</b>                                                                     |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| E25                                                                                   | Mog   | O   | U  | 1000  | 15.06 | 8.75 | 44058      | LU1000/ECO   | S52               | 6         |      | 24000+             | 140000         | 126000      | 2100          | 22  | Clear                                             | 49          | 111     |
| <b>DELUXE LUCALOX® HIGH PRESURE SODIUM LAMPS</b>                                      |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| <b>70 WATTS</b>                                                                       |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| B17                                                                                   | Med   | O   | U  | 70    | 5.5   | 3.5  | 16611      | LU70/DX/MED  | S62               | 6         |      | 10000              | 3800           | 3040        | 2200          | 65  | Clear, Improved CRI                               |             | 111     |
| <b>150 WATTS</b>                                                                      |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| B17                                                                                   | Med   | O   | U  | 150   | 5.75  | 3.5  | 18094      | LU150/DX/MED | S55               | 6         |      | 15000              | 10500          | 9135        | 2200          | 65  | Clear, Improved CRI                               |             | 111     |
| ED23.5                                                                                | Mog   | O   | U  | 150   | 7.75  | 5    | 18092      | LU150/55/DX  | S55               | 12        |      | 15000              | 10500          | 9135        | 2200          | 65  | Clear, Improved CRI                               |             | 111     |
| <b>250 WATTS</b>                                                                      |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| ED18                                                                                  | Mog   | O   | U  | 250   | 9.75  | 5.75 | 11785      | LU250/DX     | S50               | 12        |      | 15000              | 22500          | 20700       | 2200          | 65  | Clear, Improved CRI                               |             | 111     |
| <b>400 WATTS</b>                                                                      |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| ED28                                                                                  | Mog   | O   | U  | 400   | 9     | 5.18 | 19650      | LU400/DX     | S51               | 12        |      | 15000              | 37400          | 34400       | 2200          | 70  | Clear, Improved CRI                               | 49          | 111     |
| <b>E-Z LUX® HIGH PRESSURE SODIUM LAMPS (MERCURY RETROFIT)</b>                         |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| <b>150 WATTS</b>                                                                      |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| ED28                                                                                  | Mog   | O   | U  | 150   | 9     | 5    | 49943      | LUH150/EZ    | H39               | 12        |      | 13000              | 12500          | 12000       | 1900          | 22  | ➤ Clear, Energy-saving Retrofit for 175W Mercury  | 46          | 111     |
| <b>215 WATTS</b>                                                                      |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| BT28                                                                                  | Mog   | O   | U  | 215   | 8.3   | 5    | 49939      | LUH215/EZ    | H37 /S65          | 12        |      | 16000              | 20000          | 17000       | 2000          | 20  | ➤ Clear, Energy-saving Retrofit for 250W Mercury  | 47          | 111     |
| <b>360 WATTS</b>                                                                      |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| BT37                                                                                  | Mog   | O   | U  | 360   | 11.31 | 7.12 | 18012      | LUH360/EZ    | H33               | 6         |      | 24000              | 45000          | 40500       | 2100          | 25  | ➤ Clear, Energy-saving Retrofit for 400W Mercury  | 48, 49      | 111     |
| <b>SOX LOW PRESSURE SODIUM LAMPS</b>                                                  |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| <b>18 WATTS</b>                                                                       |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| T16                                                                                   | BY22d | E   |    | 18    | 8.5   | 5.37 | 21294      | SOX18        | L69               | 16        |      | 18000              | 1800           | 1570        | 1800          | 0   | Clear, Horizontal Burn &#177;20&#176; or Vertical |             | 111     |
| <b>35 WATTS</b>                                                                       |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| T16                                                                                   | BY22d | E   |    | 35    | 12.25 | 7.25 | 21296      | SOX35        | L70               | 16        |      | 18000              | 4600           | 4000        | 1800          | 0   | Clear, Horizontal Burn &#177;20&#176; or Vertical |             | 111     |
| <b>55 WATTS</b>                                                                       |       |     |    |       |       |      |            |              |                   |           |      |                    |                |             |               |     |                                                   |             |         |
| T16                                                                                   | BY22d | E   |    | 55    | 16.75 | 9.5  | 21297      | SOX55        | L71               | 16        |      | 18000              | 7650           | 6655        | 1800          | 0   | Clear, Horizontal Burn &#177;20&#176; or Vertical |             | 111     |



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| Bulb                                             | Base  | LET | OP | Watts | MOL   | LCL   | Order Code                  | Description | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information                               | Foot- notes | Warning |
|--------------------------------------------------|-------|-----|----|-------|-------|-------|-----------------------------|-------------|-------------------|-----------|------|--------------------|----------------|-------------|---------------|-----|------------------------------------------------------|-------------|---------|
| <b>SOX LOW PRESSURE SODIUM LAMPS (CONTINUED)</b> |       |     |    |       |       |       |                             |             |                   |           |      |                    |                |             |               |     |                                                      |             |         |
| <b>90 WATTS</b>                                  |       |     |    |       |       |       |                             |             |                   |           |      |                    |                |             |               |     |                                                      |             |         |
| T21                                              | BY22d | E   |    | 90    | 20.75 | 11.5  | <b>21298 SOX90</b>          |             | L72               | 9         |      | 16000              | 12750          | 11095       | 1800          | 0   | Clear, Horizontal Burn &#177;20&#176;                | 111         |         |
| <b>135 WATTS</b>                                 |       |     |    |       |       |       |                             |             |                   |           |      |                    |                |             |               |     |                                                      |             |         |
| T21                                              | BY22d | E   |    | 135   | 30.5  | 16.37 | <b>21299 SOX135</b>         |             | L73               | 9         |      | 16000              | 22000          | 19140       | 1800          | 0   | Clear, Horizontal Burn &#177;20&#176;                | 111         |         |
| <b>MERCURY LAMPS</b>                             |       |     |    |       |       |       |                             |             |                   |           |      |                    |                |             |               |     |                                                      |             |         |
| <b>40/50 WATTS</b>                               |       |     |    |       |       |       |                             |             |                   |           |      |                    |                |             |               |     |                                                      |             |         |
| B17                                              | Med   | O   | U  | 50/40 | 5.12  | 3.12  | <b>12460 HR40/50DX45-46</b> |             | H45               | 5         |      | 6000               | 1575/1140      | 1250/910    | 3900          | 50  | 40W on H45 Ballast, 50W on H46 Ballast, Deluxe White | 113         |         |
| <b>75 WATTS</b>                                  |       |     |    |       |       |       |                             |             |                   |           |      |                    |                |             |               |     |                                                      |             |         |
| B17                                              | Med   | O   | U  | 75    | 5.43  | 3.5   | <b>12461 HR75DX43</b>       |             | H43               | 5         |      | 16000              | 2700           | 2250        | 3900          | 50  | Deluxe White                                         | 113         |         |
| <b>100 WATTS</b>                                 |       |     |    |       |       |       |                             |             |                   |           |      |                    |                |             |               |     |                                                      |             |         |
| A23.5                                            | Med   | O   | U  | 100   | 5.43  | 3.5   | <b>12464 HR100A38/A23</b>   |             | H38               | 5         |      | 18000              | 3700           | 2400        | 5700          | 15  | Clear                                                | 113         |         |
|                                                  |       |     |    |       |       |       | <b>12467 HR100DX38/A23</b>  |             | H38               | 5         |      | 18000              | 4000           | 2600        | 3800          | 50  | Deluxe White                                         | 113         |         |
| B17                                              | Med   | O   | U  | 100   | 5.43  | 3.5   | <b>17113 HR100DX38/MED</b>  |             | H38               | 5         |      | 18000              | 4000           | 2600        | 3900          | 50  | Deluxe White                                         | 113         |         |
| ED23.5                                           | Mog   | O   | U  | 100   | 7.5   | 5     | <b>12471 HR100A38</b>       |             | H38               | 5         |      | 24000+             | 3850           | 2500        | 5700          | 15  | Clear                                                | 113         |         |
|                                                  |       |     |    |       |       |       | <b>22575 HR100DX38</b>      |             | H38               | 12        |      | 24000+             | 4000           | 2600        | 3900          | 50  | Deluxe White                                         | 113         |         |
|                                                  |       |     |    |       |       |       | <b>26437 HR100DX38/CP</b>   |             | H38               | 4         |      | 24000+             | 4000           | 2600        | 3900          | 50  | Deluxe White, Consumer Pack                          | 113         |         |
| R40                                              | Med   | O   | U  | 100   | 7     |       | <b>36238 HR100RFL38</b>     |             | H38               | 12        |      | 24000+             | 2450           | 2000        | 5700          | 15  | Reflector Flood, 48&#176; Beam Spread                | 113         |         |
|                                                  |       |     |    |       |       |       | <b>36495 HR100RDXFL38</b>   |             | H38               | 12        |      | 24000+             | 2450           | 2050        | 3900          | 50  | Deluxe White, Reflector WFL, 140&#176; Beam Spread   | 113         |         |
| <b>175 WATTS</b>                                 |       |     |    |       |       |       |                             |             |                   |           |      |                    |                |             |               |     |                                                      |             |         |
| ED28                                             | Mog   | O   | U  | 175   | 8.25  | 5     | <b>24048 HR175A39</b>       |             | H39               | 12        |      | 24000+             | 7850           | 6830        | 5700          | 15  | Clear                                                | 113         |         |
|                                                  |       |     |    |       |       |       | <b>26440 HR175A39/CP</b>    |             | H39               | 4         |      | 24000+             | 7850           | 6830        | 5700          | 15  | Clear, Consumer Pack                                 | 113         |         |
|                                                  |       |     |    |       |       |       | <b>24062 HR175DX39</b>      |             | H39               | 12        |      | 24000+             | 7800           | 6800        | 3900          | 50  | Deluxe White                                         | 113         |         |
|                                                  |       |     |    |       |       |       | <b>26439 HR175DX39/CP</b>   |             | H39               | 4         |      | 24000+             | 7800           | 6800        | 3900          | 50  | Deluxe White, Consumer Pack                          | 113         |         |
| R40                                              | Med   | O   | U  | 175   | 7     |       | <b>24058 HR175RFL39</b>     |             | H39               | 12        |      | 24000+             | 5700           | 4800        | 5700          | 15  | Clear, Reflector Flood, 40&#176; Beam Spread         | 113         |         |
|                                                  |       |     |    |       |       |       | <b>33026 HR175RDXFL39</b>   |             | H39               | 12        |      | 24000+             | 5700           | 4350        | 3900          | 50  | Deluxe White, Reflector WFL, 120&#176; Beam Spread   | 113         |         |
|                                                  |       |     |    |       |       |       | <b>36445 HR175RFL39/M</b>   |             | H39               | 12        |      | 24000+             | 5700           | 4800        | 5700          | 15  | Clear, Reflector Flood, 40&#176; Beam Spread         | 113         |         |
| <b>250 WATTS</b>                                 |       |     |    |       |       |       |                             |             |                   |           |      |                    |                |             |               |     |                                                      |             |         |
| ED28                                             | Mog   | O   | U  | 250   | 8.25  | 5     | <b>24068 HR250A37</b>       |             | H37               | 12        |      | 24000              | 11000          | 8250        | 5700          | 15  | Clear                                                | 113         |         |
|                                                  |       |     |    |       |       |       | <b>32127 HR250DX37</b>      |             | H37               | 12        |      | 24000+             | 11200          | 8400        | 3900          | 50  | Deluxe White                                         | 113         |         |
| <b>400 WATTS</b>                                 |       |     |    |       |       |       |                             |             |                   |           |      |                    |                |             |               |     |                                                      |             |         |
| BT37                                             | Mog   | O   | U  | 400   | 11.31 | 7     | <b>32313 HR400DX33/BT</b>   |             | H33               | 6         |      | 24000+             | 22600          | 14400       | 3900          | 50  | Deluxe White                                         | 49          | 113     |
| ED37                                             | Mog   | O   | U  | 400   | 11.31 | 7     | <b>23974 HR400A33</b>       |             | H33               | 6         |      | 24000+             | 21000          | 13400       | 5700          | 15  | Clear                                                | 49          | 113     |
|                                                  |       |     |    |       |       |       | <b>23998 HR400DX33</b>      |             | H33               | 6         |      | 24000+             | 22600          | 14400       | 3900          | 50  | Deluxe White                                         | 49          | 113     |
| R52                                              | Mog   | O   | U  | 400   | 11.75 |       | <b>33879 HR400RDX33</b>     |             | H33               | 6         |      | 24000+             | 20800          | 13400       | 3900          | 50  | Reflector, Deluxe White, 160&#176; Beam Spread       | 49          | 113     |
| R60                                              | Mog   | O   | U  | 400   | 10.12 |       | <b>33938 HR400RDXFL33</b>   |             | H33               | 6         |      | 24000+             | 15500          | 8950        | 3900          | 50  | Reflector WFL, Deluxe White, Clear Face, 110&#176;   | 49          | 113     |
| <b>1000 WATTS</b>                                |       |     |    |       |       |       |                             |             |                   |           |      |                    |                |             |               |     |                                                      |             |         |
| BT56                                             | Mog   | O   | U  | 1000  | 15.06 | 9.5   | <b>24171 HR1000A36</b>      |             | H36               | 6         |      | 24000+             | 57000          | 28500       | 5700          | 15  | Clear                                                | 49          | 113     |
|                                                  |       |     |    |       |       |       | <b>24191 HR1000DX36</b>     |             | H36               | 6         |      | 24000+             | 58000          | 29000       | 3900          | 50  | Deluxe White                                         | 49          | 113     |
|                                                  |       |     |    |       |       | 9.37  | <b>32733 HR1000DX34</b>     |             | H34               | 6         |      | 16000              | 58300          | 29200       | 3900          | 50  | Deluxe White                                         | 28, 49      | 113     |

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## High Intensity Discharge Lamps

| Bulb                                                   | Base | LET | OP  | Watts | MOL   | LCL  | Order Code | Description         | ANSI Ballast Type | Case Qty. | CBCP | Rated Life (hours)            | Lumens Initial | Lumens Mean | Color Temp. K | CRI                    | Additional Information                                     | Foot- notes | Warning |
|--------------------------------------------------------|------|-----|-----|-------|-------|------|------------|---------------------|-------------------|-----------|------|-------------------------------|----------------|-------------|---------------|------------------------|------------------------------------------------------------|-------------|---------|
| SAF-T-GARD® MERCURY LAMPS                              |      |     |     |       |       |      |            |                     |                   |           |      |                               |                |             |               |                        |                                                            |             |         |
| 175 WATTS                                              |      |     |     |       |       |      |            |                     |                   |           |      |                               |                |             |               |                        |                                                            |             |         |
| ED28                                                   | Mog  | 0   | U   | 175   | 8.25  | 5    | 43391      | HT175DX39           | H39               | 12        |      | 16000                         | 7800           | 6800        | 3900          | 50                     | Deluxe White                                               | 114         |         |
| 400 WATTS                                              |      |     |     |       |       |      |            |                     |                   |           |      |                               |                |             |               |                        |                                                            |             |         |
| ED37                                                   | Mog  | 0   | U   | 400   | 11.31 | 7    | 43363      | HT400DX33           | H33               | 6         |      | 24000                         | 22600          | 14400       | 3900          | 50                     | Deluxe White                                               | 49          | 114     |
| E-Z MERC® SELF-BALLASTED LAMPS (INCANDESCENT RETROFIT) |      |     |     |       |       |      |            |                     |                   |           |      |                               |                |             |               |                        |                                                            |             |         |
| 160 WATTS                                              |      |     |     |       |       |      |            |                     |                   |           |      |                               |                |             |               |                        |                                                            |             |         |
| ED24                                                   | Med  | 0   | U   | 160   | 7     | 4.5  | 45178      | HSB160/M            |                   | 24        |      | 12000                         | 2300           | 1600        | 3900          | 50                     | Deluxe White, 120V                                         | 9           | 115     |
| 250 WATTS                                              |      |     |     |       |       |      |            |                     |                   |           |      |                               |                |             |               |                        |                                                            |             |         |
| ED28                                                   | Med  | 0   | U   | 250   | 8.5   | 5.18 | 45174      | HSB250M             |                   | 12        |      | 12000                         | 5000           | 3750        | 3900          | 50                     | Deluxe White, 120V                                         | 9           | 115     |
|                                                        |      |     |     |       |       |      | 45176      | HSB250              |                   | 12        |      | 12000                         | 5000           | 3750        | 3900          | 50                     | Deluxe White, 120V                                         | 9           | 115     |
| 450 WATTS                                              |      |     |     |       |       |      |            |                     |                   |           |      |                               |                |             |               |                        |                                                            |             |         |
| BT37                                                   | Mog  | 0   | U   | 450   |       | 7.37 | 40122      | HSB450              |                   | 6         |      | 16000                         | 9100           | 8280        | 3900          | 50                     | Deluxe White, 120V                                         | 9, 49       | 115     |
| 750 WATTS                                              |      |     |     |       |       |      |            |                     |                   |           |      |                               |                |             |               |                        |                                                            |             |         |
| R57                                                    | Mog  | 0   | U   | 750   | 12.75 | 8.37 | 44012      | HSB750R/120         |                   | 6         |      | 16000                         | 14000          | 11200       | 3900          | 50                     | Deluxe White, Reflector Flood, 120V, 130&#176; Beam        | 9, 49       | 115     |
| EXPORT LAMPS                                           |      |     |     |       |       |      |            |                     |                   |           |      |                               |                |             |               |                        |                                                            |             |         |
| METAL HALIDE                                           |      |     |     |       |       |      |            |                     |                   |           |      |                               |                |             |               |                        |                                                            |             |         |
| ED17                                                   | E27  | 0   | VBU | 32    | 5.43  | 3.43 | 16893      | MXR32/C/VBU/O/27    | M100              | 6         |      | 10000                         | 2400           | 1700        | 3200          | 70                     | Coated, protected                                          |             | 119     |
|                                                        |      |     |     | 100   | 5.43  | 3.43 | 18684      | MXR100/C/U/27       | M90               | 6         |      | 15000                         | 8500           | 5900        | 3200          | 70                     | Coated                                                     |             | 117     |
| ED28                                                   | E40  | E   | U   | 175   | 8.25  | 5    | 47762      | MVR175/U/40         | M57               | 12        |      | 6000H 13600V 10000V 11700H    | 8800V 7400H    | 4000        | 65            | Clear                  |                                                            | 117         |         |
|                                                        |      |     |     |       |       |      | 47763      | MVR175/C/U/40       | M57               | 12        |      | 6000H 12900V 10000V 11900H    | 8400V 7900H    | 3900        | 70            | Coated                 |                                                            | 117         |         |
|                                                        |      |     |     |       |       |      | 17714      | MVR175/SP30/U/40    | M57               | 12        |      | 6000H 12000V 10000V 10300H    | 7600V 6500H    | 3000        | 70            | RE730 Phosphor Coating |                                                            | 117         |         |
|                                                        |      |     |     | 250   | 8.25  | 5    | 44542      | MVR250/U/40         | M58               | 12        |      | 6000H 20800V 10000V 19100H    | 13500V 12400H  | 4200        | 65            | Clear                  |                                                            | 117         |         |
|                                                        |      |     |     |       |       |      | 44543      | MVR250/C/U/40       | M58               | 12        |      | 6000H 19800V 10000V 18200H    | 13000V 11600H  | 3900        | 70            | Coated                 |                                                            | 117         |         |
|                                                        |      |     |     |       |       |      | 17715      | MVR250/SP30/U/40    | M58               | 12        |      | 6000H 18000V 10000V 16600H    | 11500V 10600H  | 3000        | 70            | RE730 Phosphor Coating |                                                            | 117         |         |
| ED37                                                   | E40  | S   | U   | 400   | 11.5  | 7    | 43907      | MVR400/U/40         | M59               | 6         |      | 15000H 36000V 20000V 33100H   | 23500V 22100H  | 4000        | 65            | Clear                  | 49                                                         | 121         |         |
|                                                        |      |     |     |       |       |      | 43908      | MVR400/C/U/40       | M59               | 6         |      | 15000H 35000V 20000V 32200H   | 23000V 19300H  | 3700        | 70            | Coated                 | 49                                                         | 121         |         |
|                                                        |      | S   | V   | 400   | 11.5  | 7    | 49860      | MVR400/VBU/40       | M59               | 6         |      | 20000                         | 41000          | 26500       | 4000          | 65                     | Clear, Vertical Base Up &#177;15&#176;                     | 49          | 121     |
|                                                        |      |     |     |       |       |      | 49857      | MVR400/C/VBU/40     | M59               | 6         |      | 20000                         | 41000          | 25000       | 3700          | 70                     | Coated, Vertical Base Up &#177;15&#176;                    | 49          | 121     |
|                                                        |      | O   | VBU | 400   | 11.5  | 7    | 27738      | MPR400/C/VBU/O/40   | M59               | 6         |      | 20000                         | 38000          | 26000       | 3200          | 70                     | Coated, Vertical Base Up, 49 protected                     | 119         |         |
|                                                        |      | S   | V   | 400   | 11.5  | 7    | 46420      | MVR400/VBU/STB/40   | M59               | 6         |      | 20000                         | 41000          | 31000       | 4000          | 65                     | Clear, StayBright®&#174; 49                                | 121         |         |
|                                                        |      |     |     |       |       |      | 46421      | MVR400/C/VBU/STB/40 | M59               | 6         |      | 20000                         | 41000          | 29500       | 3700          | 70                     | Coated, StayBright®&#174; 49                               | 121         |         |
|                                                        |      | U   |     | 400   | 11.5  | 7    | 17716      | MVR400/SP30/U/40    | M59               | 6         |      | 15000H 31000V 20000V 28500H   | 18600V 17100H  | 3000        | 70            | RE730 Phosphor Coating | 49                                                         | 121         |         |
|                                                        |      | VBU |     | 400   | 11.5  | 7    | 21440      | MVR400/SP30/VBU/40  | M59               | 6         |      | 20000                         | 34000          | 20400       | 3200          | 70                     | RE730 Phosphor Coating, 49 Vertical Base Up &#177;15&#176; | 121         |         |
|                                                        |      | O   | VBU | 400   | 11.5  | 7    | 18709      | MPR400/VBU/O/40     | M59               | 6         |      | 20000                         | 40000          | 26000       | 3400          | 65                     | Clear, Vertical Base Up &#177;15&#176;, Shrouded A         | 49          | 119     |
| BT56                                                   | E40  | S   | U   | 1000  | 15.37 | 9.5  | 41828      | MVR1000/U/40        | M47               | 6         |      | 11000H 108000V 15000V 100280H | 86000V 79000H  | 4000        | 65            | Clear                  | 49                                                         | 121         |         |
|                                                        |      |     |     |       |       |      | 41829      | MVR1000/C/U/40      | M47               | 6         |      | 11000H 105000V 15000V 96600H  | 80000V 73000H  | 3700        | 65            | Coated                 | 49                                                         | 121         |         |



# High Intensity Discharge Lamps

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| Bulb                                                            | Base | LET | OP | Watts | MOL   | LCL  | Order Code | Description       | ANSI Ballast Type | Case Qty. | Rated Life (hours) | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Additional Information                             | Foot-notes | Warning |
|-----------------------------------------------------------------|------|-----|----|-------|-------|------|------------|-------------------|-------------------|-----------|--------------------|----------------|-------------|---------------|-----|----------------------------------------------------|------------|---------|
| <b>EXPORT LAMPS (CONTINUED)</b>                                 |      |     |    |       |       |      |            |                   |                   |           |                    |                |             |               |     |                                                    |            |         |
| <b>LUCALOX® HIGH PRESSURE SODIUM</b>                            |      |     |    |       |       |      |            |                   |                   |           |                    |                |             |               |     |                                                    |            |         |
| E21                                                             | E27  | 0   | U  | 70    | 6.3   | 4.13 | 10405      | LU70/90/27        |                   | 12        | 24000+             | 6000           | 5400        | 1900          | 22  | Clear                                              | 111        |         |
| ED23.5                                                          | E40  | 0   | U  | 150   | 7.75  | 5    | 44044      | LU150/55/40       | S55               | 12        | 24000+             | 16000          | 14400       | 2000          | 22  | Clear                                              | 111        |         |
| T14.5                                                           | E40  | 0   | U  | 150   | 8.23  | 5.16 | 27223      | LU150/100/40      |                   | 12        | 24000+             | 15000          | 13500       | 2000          | 22  | Clear                                              | 111        |         |
| ED28                                                            | E40  | 0   | U  | 150   | 9.13  | 5.24 | 27228      | LU150/100/D/40    |                   | 12        | 24000+             | 14000          | 12600       | 2000          | 22  | Diffuse                                            | 111        |         |
| ED18                                                            | E40  | 0   | U  | 250   | 9.75  | 5.75 | 44048      | LU250/40          | S50               | 12        | 24000+             | 28000          | 25200       | 2100          | 22  | Clear                                              | 111        |         |
| ED28                                                            | E40  | 0   | U  | 250   | 9     | 5    | 27226      | LU250/D/40        | S50               | 12        | 24000+             | 26000          | 23400       | 2100          | 22  | Clear                                              | 111        |         |
| ED18                                                            | E40  | 0   | U  | 400   | 9.75  | 5.75 | 44055      | LU400/40          | S51               | 12        | 24000+             | 51000          | 45000       | 2100          | 22  | Clear                                              | 49         | 111     |
| ED37                                                            | E40  | 0   | U  | 400   | 11.31 | 7    | 27229      | LU400/D/40        | S51               | 6         | 24000+             | 47500          | 42750       | 2100          | 22  | Diffuse                                            | 49         | 111     |
| E25                                                             | E40  | 0   | U  | 1000  | 15.06 | 8.75 | 44059      | LU1000/40         | S52               | 6         | 24000+             | 140000         | 126000      | 2100          | 22  | Clear                                              | 49         | 111     |
| <b>E-Z LUX® LUCALOX® HIGH PRESURE SODIUM (MERCURY RETROFIT)</b> |      |     |    |       |       |      |            |                   |                   |           |                    |                |             |               |     |                                                    |            |         |
| ED28                                                            | E40  | 0   | U  | 215   | 9     | 5    | 49941      | LUH215/D/EZ/40    |                   | 12        | 12000              | 20200          | 18600       | 1900          | 22  | ↗ Diffuse, Energy-saving Retrofit for 250W Mercury | 111        |         |
| <b>MERCURY</b>                                                  |      |     |    |       |       |      |            |                   |                   |           |                    |                |             |               |     |                                                    |            |         |
| ED37                                                            | E40  | 0   | U  | 400   | 11.42 | 7.13 | 32294      | HR400DX33/40      | H33               | 6         | 24000+             | 22600          | 14400       | 3900          | 50  | Deluxe White                                       | 49         | 113     |
| <b>HORTICULTURAL LAMPS</b>                                      |      |     |    |       |       |      |            |                   |                   |           |                    |                |             |               |     |                                                    |            |         |
| T15                                                             | E40  | 0   | U  | 400   | 11.3  | 7    | 41813      | LU400/XO/T/40     |                   | 12        | 28500              | 56500          | 53675       | 2100          | 22  | Clear                                              | 33,38,     | 111     |
|                                                                 | E41  | 0   | U  | 600   | 11.3  | 6.7  | 41814      | LU600/XO/T/40     |                   | 12        | 28500              | 90000          | 85500       | 2100          | 22  | Clear                                              | 33,38,     | 111     |
|                                                                 | E42  | 0   | U  | 400   | 11.3  | 7.1  | 41845      | LU400/XOPSL/T/E40 |                   | 12        | 28500              | 56500          | 53675       | 2100          | 22  | Clear                                              | 33,38,     | 111     |
|                                                                 | E43  | 0   | U  | 600   | 11.3  | 6.7  | 41850      | LU600/XOPSL/T/E40 |                   | 12        | 28500              | 90000          | 85500       | 2100          | 22  | Clear                                              | 33,38,     | 111     |
|                                                                 | E44  | 0   | U  | 750   | 11.7  | 7.1  | 41856      | LU750/XOPSL/T/E40 |                   | 12        | 16000              | 112000         | 106400      | 2100          | 22  | Clear                                              | 33,38,     | 111     |

## FOOTNOTES

### # Footnote

9 Do not use this lamp in fixtures designed for less than rated lamp wattage.

14 Life shown is for vertical  $\pm 15^\circ$  operation.

16 Approximate lumen ratings at  $45^\circ$  burning position: Initial - 145,000. Mean - 124,000.

17 Rated life based on 5 or more burning hours per start.

28 Use only 1000-watt H12 or H34-type ballasts. Do not use on 1000-watt H36-type ballasts.

32 Lamp will run at 400-watts when used on a linear reactor ballast.

33 Rated life based on 11 hours per start.

38 Requires a non-ANSI designated ballast with a special, add-on metal halide ignitor. Contact your local GE representative for a list of approved ballasts and ignitors.

39 UV Control is a quartz material that effectively cuts UVB and UVC radiation.

42 Approximate lumen ratings at  $45^\circ$  burning position: Initial - 153,000. Mean - 139,000.

43 When operated on a 120 hrs. cycle (minimum), lamp life rating may be extended by up to 50% based on engineering estimates.

44 Rated life based on 7 hours per start.

45 Use electronic ballast, peak lead ballast, or system which can shut itself off if ballast overheating occurs.

46 Use only with the following types of H39 175-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

47 Use only with the following types of H37 250-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

48 Use only with the following types of H33 400-watt mercury ballasts: high-reactance lag-type autotransformers, reactors, CWA auto regulators or CW regulators.

49 Not for use with lampholders that have stainless steel center contacts to avoid lamp or lampholder damage due to arcing.

50 Not for use on Magnetic-Regulator or Electronic-Regulator ballast systems to avoid ballast overheating.

51 Use only with electronic ballast.

52 Use only with approved ballast.

## GENERAL INFORMATION

### FIXTURE REQUIREMENTS – LAMP ENCLOSURE TYPE

HID lamps have fixture requirements that must be followed. The following three codes identify the appropriate fixture for a particular lamp. Lamps having an "O" code can be operated in an "Open or Enclosed" fixture. Lamps with a "S" code can be used in open fixtures only if operated in a vertical  $\pm 15^\circ$  burn position. Lamps in all other burn positions must be suitably enclosed.

O = Open or Enclosed Fixtures

E = Enclosed Fixtures Only

S = Lamps operated in a vertical position (Base Up or Down),  $\pm 15^\circ$ , can be used in an open fixture. Lamps burned in any other orientation must be used in "enclosed fixtures only".

**Use in Enclosed Fixtures.** "Enclosed" fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to  $1100^\circ\text{C}$ ) per UL Standard #1598 (if in doubt, contact your fixture manufacturer).

**Use In Open Fixtures.** For lamps operated in the vertical position  $\pm 15^\circ$  that are not designated "Enclosed Fixtures Only," lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in

an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

### PROTECTION OF BULBS FROM MOISTURE

Outer bulbs of HID lamps are made of heat-resistant glass, designed to have strength and thermal-shock-resistant characteristics suitable for normal applications in typical luminaires. However, shielding of lamps must be provided to avoid bulb breakage that could result from direct contact with liquids (such as water) during operation.

### RATED LIFE

Values are based on laboratory tests of a large number of representative lamps under controlled conditions, including operation at 10 hours per start on ballasts having specified electrical characteristics. Individual lamps or groups of lamps may, of course, vary from the Rated Life shown. Lamp operating conditions can also affect life. Where Rated Life is less than 24,000 hours, it is a MEDIAN value of life expectancy; that is, the total operating time at which, under normal operating conditions, 50% of any large group of initially installed lamps is expected to be still burning. Where Rated Life is 24,000+ hours, 67% of lamps are expected to be still burning at 24,000 hours.



## GENERAL INFORMATION (CONTINUED)

For cost-of-light calculations involving these lamps, if an estimated operating time is required at which 50% of the lamps will still be burning, a value of 28,500 hours is suggested. At burning cycles shorter than 10 hours per start, the median life will be shortened as follows:

|               |                            |
|---------------|----------------------------|
| 5 hrs/start:  | approx. life 75% of rating |
| 2½ hrs/start: | approx. life 56% of rating |
| 1½ hrs/start: | approx. life 42% of rating |

### LUMENS— LUMENS LISTED ARE REFERENCE LUMENS

Rated average lamp lumens are obtained under controlled laboratory conditions in a prescribed burning position. **Initial Reference Lumens** refer to the lamp lumen output after 100-hours burning. **Mean Reference Lumens** refer to the lamp lumen output at the mean lumen point during lamp life. The mean lumen point occurs at 50% rated life for HPS and mercury lamps, and at 40% rated life for metal halide lamps. Lamp performance on typical systems under typical service conditions will vary from the reference lumen ratings.

High Intensity Discharge lighting systems are subject to a wide range of variations which may affect final lighting levels. As a result, lamp performance on actual systems may vary due to lamp orientation, ambient temperatures, ballast variations, line voltage and other reasons. Care must be taken when choosing a system to consider how these changes can affect your light levels both initially and at the mean lumen point.

### BALLASTS

HID lamps (except E-Z-Merc®) require auxiliary ballast equipment designed to produce proper electrical values. Actual lamp watts may vary depending on ballast characteristics. For total system watts, add nominal ballast watts.

All Lucalox®, Mercury, and Metal Halide lamps (except I-Line) will start at ambient temperatures of -22°F (-30°C). I-Line Multi-Vapor® will start at ambient temperatures of 5°F (-15°C) when used on approved mercury ballasts.

### START CHARACTERISTICS

Full light output does not occur immediately when power is applied. Instead, there is a time delay for the lamp to reach 90% total light output. The starting delay for High Pressure Sodium is 3-4 minutes, for Metal Halide 2-5 minutes, and for Mercury 5-7 minutes.

## OPERATING NOTES

### CMH® CHROMAFIT™ METAL HALIDE LAMPS

Use in enclosed luminaire with front cover made of glass, capable of containing the fragments of a lamp should it shatter, to avoid risk of fire. Do not use with Polymeric Lens.

### E-Z LUX® LAMPS

These high pressure sodium lamps should be operated only on certain mercury ballasts, as indicated below.

LUH110/EZ: use only with the following types of 125-watt mercury ballasts: high-reactance lag-type autotransformers or 220-volt or greater reactors.

LUH150/EZ: use only with the following types of H39 175-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

LUH215/EZ: use only with the following types of H37 250-watt mercury ballasts: high reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

LUH360/EZ: use only with the following types of H33 400-watt mercury ballasts: high-reactance lag-type autotransformers, reactors, CWA auto regulators or CW regulators.

### RESTART CHARACTERISTICS

With a power interruption of a half cycle or more, the arc will extinguish. When power is immediately reapplied, full light output does not occur immediately. For HPS lamps there is a delay of 1 minute to reach 90% total light output; however, Lucalox® LU1000 requires 2 minutes and E-Z Lux® lamps require 3 minutes to reach 90% total light output. For most Metal Halide lamps, including CMH®, when the power is immediately reapplied, there will be a delay of 10 to 17 minutes before the lamps reach the 90% light output level. PulseArc® lamps restrike in <4 minutes. The restart delay for mercury lamps is 3 to 6 minutes to reach 90% total light output.

### OPERATING POSITIONS AND CODES

Mercury and High Pressure Sodium lamps may be operated in any burn position and will still maintain their rated performance specifications. Metal Halide and Low Pressure Sodium lamps, however, are optimized for performance in specific burn positions, or may be restricted to certain burn positions for safety reasons.

|     |                                |
|-----|--------------------------------|
| U   | = Universal burning position   |
| HBU | = Horizontal -15° to Base Up   |
| HBD | = Horizontal +15° to Base Down |
| HOR | = Horizontal ±15°              |
| H45 | = Horizontal to ±45° only      |
| VBU | = Vertical Base Up ±15°        |
| VBD | = Vertical Base Down ±15°      |

If no special burn position is noted, the burn position is universal.

### HID COLOR

The color temperature and CRI listed in the tabular data are for reference purposes only. All high intensity discharge lamps exhibit some degree of lamp to lamp color variation and shift over life. These characteristics can be increased based on choice of fixture, ballast, burning position, and ambient conditions. Color variation can be greater than normal during the initial 100 hours of burning. Where color consistency is important, consider using ConstantColor® CMH® for better performance (page 3-9). Contact your local GE Lighting representative for more information.

### EXPORT BASE LAMPS (/27 AND /40)

Export only lamps have a non-domestic (non-U.S.) base and are not intended for use in the United States due to potential shock hazard. The lamps are identified by "/27" or "/40" at the end of the lamp description and comply with electrical characteristics defined by IEC standards.

### MXR32 METAL HALIDE LAMP AND ELECTRONIC BALLAST

MXR32 lamps must be operated on GE's special, high power factor electronic ballast, HAL32/120. Outside dimensions for the ballast are 9¾" long, 3½" wide and 1¾" high.

### SAF-T-GARD® MULTI-VAPOR® AND SAF-T-GARD® MERCURY LAMPS

Caution: If the outer glass envelope of a Saf-T-Gard® lamp is broken, the arc tube will self-extinguish, but the supporting structure will still be electrically connected. Be sure power is off and the lamp has cooled before removing the lamp to avoid possible electrical shock from contact with the arc tube support and to avoid risk of burn from the hot arc tube.

### ARCSTREAM® METAL HALIDE LAMPS

Arcstream® tubular-shaped lamps must be used in suitably-enclosed fixtures with UV-absorbing cover glass. Enclosed fixtures must be capable of containing fragments of hot quartz or glass (up to 1100°C) in the unusual event of the outer bulb shattering. Also see complete Warning and Caution Notices on metal halide lamps.



## High Intensity Discharge Lamps

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[www.interlight.biz](http://www.interlight.biz)

### WARNING NOTICES

**THE FOLLOWING WARNING NOTICES MUST BE COMPLIED WITH TO HELP AVOID POSSIBLE LAMP RUPTURE.** General Electric Company will not be responsible for poor lamp performance, personal injury or property damage resulting from failure to follow these instructions.

#### HID LAMPS - GENERAL

##### WARNING

Most HID lamps are constructed of an outer bulb with an internal arc tube made of quartz. The arc tube operates under high pressure at very high temperatures - as high as approximately 1100°C. The arc tube and outer bulb may unexpectedly rupture due to internal causes or external factors such as a system failure or misapplication.

An arc tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot quartz particles (as high as 1100°C). There is a risk of personal injury, property damage, burns and fire.

Some lamps are position-sensitive and must only be operated in specified burning positions (see "Additional Information" column in this catalog) with compatible electrical equipment in the types of fixtures prescribed in "Lamp Enclosure Type" on Page 3-22 of this catalog.

In addition to the general warnings above, there are specific warnings for the HID lamp types listed below.

##### Metal Halide Lamps

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

In continuously-operating systems (24 hours/day, 7 days/week), turn lamps off once per week for at least 15 minutes. FAILURE TO COMPLY INCREASES THE RISK OF RUPTURE.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase.

##### High Pressure Sodium Lamps

This is a vacuum jacket lamp and may implode if broken. As a precaution, wear safety glasses and gloves when installing or removing lamp. High pressure sodium lamps are not position-sensitive and may be operated in any burning position.

##### Mercury Lamps

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase.

Mercury lamps are not position-sensitive and may be operated in any burning position.

##### Low Pressure Sodium Lamps

These lamps contain sodium which will ignite when exposed to water. If lamps are not disposed of properly, there is a risk of fire in the disposal vessel. Consult GE for disposal instructions.

##### LAMP ENCLOSURE TYPE

Use in Enclosed Fixtures. "Enclosed" fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to 1100°C) in accordance with UL Standard #1572 (if in doubt, contact your fixture manufacturer).

Use In Open Fixtures. For lamps operated in the vertical position  $\pm 15^\circ$  that are not designated "Enclosed Fixtures Only," lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

##### IMPORTANT NOTICE

In accordance with Federal Regulations (21 CFR 1040.30), the following notice applies to all lamps in the HID section of this catalog except High Pressure, Low Pressure Sodium Lamps, and Saf-T-Gard® Multi-Vapor Lamps.

**"R WARNING:** This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured, and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available."

### WARNING AND CAUTION NOTICES

#### 101 - Arcstream®

##### ▲ WARNING

###### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

###### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

###### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

###### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage

- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

##### ▲ CAUTION

###### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

###### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp



## WARNING AND CAUTION NOTICES (CONTINUED)

### 102 - Arcstream® G12

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

##### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
  - Use thermally protected ballast

##### Lamp emits UV radiation which may cause eye/skin injury.

- Avoid exposure of eyes and skin to unshielded lamp

##### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

#### ⚠ CAUTION

##### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

##### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

### 103 - Arcstream® Rx7s

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

##### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

##### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

##### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use in wet locations
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

#### ⚠ CAUTION

##### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

##### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

### 104 - CMH® GU6.5, G12 and Mini

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

##### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast – see instructions

##### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

##### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Normal handling with bare hands is acceptable. Excessive handling of the quartz outer bulb should be avoided.
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not use beyond rated life
- Do not turn on lamp until fully installed

#### ⚠ CAUTION

##### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

##### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp



## WARNING AND CAUTION NOTICES (CONTINUED)

### 105 - CMH® HW HPS

#### ⚠ WARNING

##### **Risk of electric shock**

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

##### **Risk of fire**

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use electronic ballast, peak lead ballast, or system which can shut itself off if ballast overheating occurs. Does not apply to CMH 250/R.

##### **A damaged lamp emits UV radiation which may cause eye/skin injury**

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

##### **Unexpected lamp rupture may cause injury, fire, or property damage**

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed luminaire with front cover made of glass, capable of containing the fragments of a lamp should it shatter, to avoid risk of fire. Do not use with Polymeric Lens.
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not use beyond rated life
- Do not turn on lamp until fully installed

#### ⚠ CAUTION

##### **Risk of burn**

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

##### **Lamp may shatter and cause injury if broken**

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

### 106 - CMH® HW PA

#### ⚠ WARNING

##### **Risk of electric shock**

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

##### **Risk of fire**

- Keep combustible materials away from lamp
- Use in fixture rated for this product

##### **A damaged lamp emits UV radiation which may cause eye/skin injury**

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

##### **Unexpected lamp rupture may cause injury, fire, or property damage**

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

#### ⚠ CAUTION

##### **Risk of burn**

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

##### **Lamp may shatter and cause injury if broken**

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

### 107 - CMH® MR16 and PAR20-30

#### ⚠ WARNING

##### **Risk of electric shock**

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

##### **Risk of fire**

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast - see instructions

##### **Unexpected lamp rupture may cause injury, fire, or property damage**

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

#### ⚠ CAUTION

##### **Risk of burn**

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

##### **Lamp may shatter and cause injury if broken**

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

### 108 - CMH® PAR38

#### ⚠ WARNING

##### **Risk of electric shock**

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

##### **Risk of fire**

- Keep combustible materials away from lamp
- Use in fixture rated for this product

##### **A damaged lamp emits UV radiation which may cause eye/skin injury**

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

##### **Unexpected lamp rupture may cause injury, fire, or property damage**

- Do not exceed rated voltage
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not turn on lamp until fully installed



## WARNING AND CAUTION NOTICES (CONTINUED)

### ▲ CAUTION

#### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

#### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken

### 109 - CMH® TD

### ▲ WARNING

#### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

#### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

#### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

#### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Normal handling with bare hands is acceptable. Excessive handling of the quartz outer bulb should be avoided.
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not use beyond rated life
- Do not turn on lamp until fully installed

### ▲ CAUTION

#### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

#### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

### 110 - Arcstream®, Kolorarc®

### ▲ WARNING

#### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

#### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

#### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

#### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
  - Do not turn on lamp until fully installed

### ▲ CAUTION

#### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

#### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

### 111 - Lucalox®

### ▲ WARNING

#### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

#### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

#### Contains sodium – chemical burn risk

- Avoid skin contact with broken pieces

#### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

### ▲ CAUTION

#### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

#### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp



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### WARNING AND CAUTION NOTICES (CONTINUED)

#### 112 - Lucalox® HO

##### ⚠ WARNING

###### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

###### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast - see instructions

###### Contains sodium – chemical burn risk

- Avoid skin contact with broken pieces

###### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

##### ⚠ CAUTION

###### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

###### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

#### 113 - Mercury

##### ⚠ WARNING

###### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

###### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

###### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

###### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

##### ⚠ CAUTION

###### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

###### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

#### 114 - Mercury Saf-T-Gard®

##### ⚠ WARNING

###### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

###### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

###### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

##### ⚠ CAUTION

###### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

###### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

#### 115 - Mercury Self-Ballasted

##### ⚠ WARNING

###### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

###### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

###### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

###### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken



## WARNING AND CAUTION NOTICES (CONTINUED)

### ⚠ CAUTION

#### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

#### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

### 116 - QMH E-rated Kr85 and CMH®

### ⚠ WARNING

#### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

#### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

#### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

#### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week. Does not apply to CMH.
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

### ⚠ CAUTION

#### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

#### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

### 117 - QMH HOR Enclosed

### ⚠ WARNING

#### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

#### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

#### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

#### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not remove base locating pin if so equipped
- Do not turn on lamp until fully installed

### ⚠ CAUTION

#### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

#### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

### 118 - QMH LW Kr85

### ⚠ WARNING

#### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

#### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

#### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

#### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not turn on lamp until fully installed

### ⚠ CAUTION

#### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

#### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp



## WARNING AND CAUTION NOTICES (CONTINUED)

### 119 - QMH Protected

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

##### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

##### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

##### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

#### ⚠ CAUTION

##### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

##### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

### 120 - QMH Protected Kr85

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

##### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

##### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

##### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

#### ⚠ CAUTION

##### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

##### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

### 121 - QMH S-rated

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

##### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

##### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

##### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product — see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

#### ⚠ CAUTION

##### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

##### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp



## WARNING AND CAUTION NOTICES (CONTINUED)

### 122 - QMH S-rated Kr85

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

##### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

##### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

##### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product – see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

#### ⚠ CAUTION

##### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

##### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

### 123 - QMH S-rated Saf-T-Gard®

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

##### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

##### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product – see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

#### ⚠ CAUTION

##### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

##### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

### 124 - Sport 1000W PAR64

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

##### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

##### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

##### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

#### ⚠ CAUTION

##### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

##### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling Lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp



# High Intensity Discharge Lamps

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[www.interlight.biz](http://www.interlight.biz)

## WARNING AND CAUTION NOTICES (CONTINUED)

### 125 - Sport MBIL-CSI-CID

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

##### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

##### Lamp emits UV radiation which may cause eye/skin injury.

- Avoid exposure of eyes and skin to unshielded lamp

##### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands

- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

#### ⚠ CAUTION

##### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

##### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

## HID LAMPS CROSS REFERENCE

| GE<br>Description              | Osram/Sylvania<br>Description       | Philips<br>Description |
|--------------------------------|-------------------------------------|------------------------|
| ORDER THIS<br>GE LAMP          | IF YOU CURRENTLY USE<br>THESE LAMPS |                        |
| STANDARD AND ECOLUX® HPS LAMPS |                                     |                        |
| Lucalox®                       | Lumalux®                            | Ceramalux™             |
| LU35/MED                       | LU35/MED                            | C35S76/M               |
| LU35/D/MED                     | LU35/D/MED                          | C35S76/D/M             |
| LU50/MED                       | LU50/MED                            | C50S68/M               |
| LU50/D/MED                     | LU50/D/MED                          | C50S68/M               |
| LU50                           | LU50/ECO                            | C50S68/ALTO            |
| LU50/D                         | LU50/D                              | C50S68/D               |
| LU70/MED                       | LU70/MED                            | C70S62/M               |
| LU70/D/MED                     | LU70/D/MED                          | C70S62/D/M             |
| LU70/ECO                       | LU70/ECO                            | C70S62/ALTO            |
| LU70/ECO/NC                    | LU70/PLUS/ECO                       | —                      |
| LU70/D                         | LU70/D                              | C70S62/D               |
| LU100/MED                      | LU100/MED                           | C100S54/M              |
| LU100/D/MED                    | LU100/D/MED                         | C100S54/D/M            |
| LU100/ECO                      | LU100/ECO                           | C100S54/ALTO           |
| LU100/ECO/NC                   | LU100/PLUS/ECO                      | —                      |
| LU100/D                        | LU100/D                             | C100S54/D              |
| LU150/MED                      | LU150/55/MED                        | CC150S55/M             |
| LU150/D/MED                    | LU150/55/D/MED                      | C150S55/D/M            |
| LU150/55/ECO                   | LU150/55/ECO                        | C150S55/ALTO           |
| LU150/ECO/NC                   | LU150/55/PLUS/ECO                   | —                      |
| LU150/55/D                     | LU150/55/D                          | C150S55/D              |
| LU150/100                      | LU150/100                           | C150S56/ALTO           |
| LU200/ECO                      | LU200/ECO                           | C200S66                |
| LU200/ECO/NC                   | LU200/PLUS/ECO                      | —                      |
| LU250/ECO                      | LU250/ECO                           | C250S50                |
| LU250/ECO/NC                   | LU250/PLUS/ECO                      | —                      |
| LU250/D                        | LU250/D                             | C250S50/D              |

| GE<br>Description                           | Osram/Sylvania<br>Description       | Philips<br>Description |
|---------------------------------------------|-------------------------------------|------------------------|
| ORDER THIS<br>GE LAMP                       | IF YOU CURRENTLY USE<br>THESE LAMPS |                        |
| STANDARD AND ECOLUX® HPS LAMPS (CONTINUED)  |                                     |                        |
| Lucalox®                                    | Lumalux®                            | Ceramalux™             |
| LU310                                       | LU310/ECO                           | C310S67                |
| LU400/ECO                                   | LU400/ECO                           | C400S51                |
| LU400/ECO/NC                                | LU400/PLUS/ECO                      | —                      |
| LU400/D                                     | LU400/D                             | C400S51/D              |
| LU750                                       | LU750                               | —                      |
| LU1000/ECO                                  | LU1000                              | C1000S52               |
| DELUXE HIGH PRESSURE SODIUM LAMPS           |                                     |                        |
| Lucalox®                                    |                                     | Ceramalux™             |
| LU70/DX/MED                                 | —                                   | C70S62/C/M             |
| LU150/DX/MED                                | —                                   | C150S55/C/M            |
| LU150/55/DX                                 | —                                   | C150S55/C              |
| LU250/DX                                    | —                                   | C250S50/C              |
| LU400/DX                                    | —                                   | C400S51/C              |
| STANDBY LONGLIFE HIGH PRESSURE SODIUM LAMPS |                                     |                        |
| Lucalox®                                    | Lumalux®                            | Ceramalux™             |
| LU70/SBY/XL                                 | LU70/SBY                            | C70S62/2               |
| LU100/SBY/XL                                | LU100/SBY                           | C100S54/2              |
| LU150/55/SBY/XL                             | LU150/551SBY                        | C150S55/2              |
| LU200/SBY/XL                                | LU200/100/SBY                       | —                      |
| LU250/SBY/XL                                | LU250/SBY                           | C250S50/2              |
| LU400/SBY/XL                                | LU400/SBY                           | C400S51/2              |
| LU1000/SBY/XL                               | LU1000/SBY                          | C1000S52/2             |
| EZ-LUX® HIGH PRESSURE SODIUM LAMPS          |                                     |                        |
| E-Z LUX®                                    | Unalux®                             | Ceramalux™             |
| LUH150/EZ                                   | ULX150                              | C150S63 RETROLUX       |
| LUH215/EZ                                   | UIX215                              | C215S675 RETROLUX      |
| LUH360/EZ                                   | ULX360                              | C360S64 RETROLUX       |



## HID LAMPS CROSS REFERENCE (CONTINUED)

| GE<br>Description          | Osram/Sylvania<br>Description       | Philips<br>Description |
|----------------------------|-------------------------------------|------------------------|
| ORDER THIS<br>GE LAMP      | IF YOU CURRENTLY USE<br>THESE LAMPS |                        |
| CERAMIC METAL HALIDE LAMPS |                                     |                        |
| CMH20/MR16/830/SP          | —                                   | —                      |
| CMH20/MR16/830/FL          | —                                   | —                      |
| CMH20/MR16/830/WFL         | —                                   | —                      |
| CMH20/PAR20/SP             | —                                   | —                      |
| CMH20/PAR20/FL             | —                                   | —                      |
| CMH20/PAR30/SP10           | MCP20PAR30LN/U/830/SP               | —                      |
| CMH20/PAR30/SP15           | —                                   | —                      |
| CMH20/PAR30/FL25           | MCP20PAR30LN/U/830/FL               | —                      |
| CMH39/PAR20/830/SP10       | MCP39PAR20/U/830/SP                 | CDM35/PAR20/M/SP       |
| CMH39/PAR20/830/FL30       | MCP39PAR20/U/830/FL                 | CDM35/PAR20/M/FL       |
| CMH39/PAR30L/830/SP10      | MCP39PAR30LN/U/830/SP               | CDM35/PAR30L/M/SP      |
| CMH39/PAR30L/830/SP15      | —                                   | —                      |
| CMH39/PAR30L/830/FL25      | MCP39PAR30LN/U/830/FL               | CDM35/PAR30L/M/FL      |
| CMH70/PAR30L/830/SP15      | MCP70PAR30LN/U/830/SP               | CDM70/PAR30L/M/SP      |
| CMH70/PAR30L/830/FL40      | MCP70PAR30LN/U/830/FL               | CDM70/PAR30L/M/FL      |
| CMH70/PAR38/830/SP15       | MCP70PAR38/U/830/SP                 | CDM70/PAR38/SP/3K      |
| CMH70/PAR38/830/FL25       | MCP70PAR38/U/830/FL                 | CDM70/PAR38/FL/3K      |
| CMH70/PAR38/830/WFL        | MCP70PAR38/U/830/WFL                | CDM70/PAR38/WFL/3K     |
| CMH100/PAR38/830/SP15      | MCP100PAR38/U/830/SP                | CDM100/PAR38/SP/3K     |
| CMH100/PAR38/830/FL25      | MCP100PAR38/U/830/FL                | CDM100/PAR38/FL/3K     |
| CMH100/PAR38/830/WFL       | MCP100PAR38/U/830/WFL               | CDM100/PAR38/WFL/3K    |
| CMH70/U/830/MED            | MCP70/U/MED/830                     | MHC70/U/M/3K           |
| CMH70/C/U/830/MED          | MCP70/C/U/MED/830                   | MHC70/C/U/M/3K         |
| CMH100/U/830/MED           | MCP100/U/MED/830                    | MHC100/U/M/3K          |
| CMH100/C/U/830/MED         | MCP100/C/U/MED/830                  | MHC100/C/U/M/3K        |
| CMH70/U/830/MED/O          | MCP70/U/MED/830                     | MHC70/U/MP/3K/ALTO     |
| CMH70/C/U/830/MED/O        | MCP70/C/U/MED/830                   | MHC70/C/U/MP/3K/ALTO   |
| CMH70/U/942/MED/O          | —                                   | MHC70/U/MP/4K/ALTO     |
| CMH70/C/U/942/MED/O        | —                                   | MHC70/C/U/MP/4K/ALTO   |
| CMH150/U/830/MED/O         | MCP150/U/MED/830                    | MCH150/U/MP/3K/ALTO    |
| CMH150/C/U/830/MED/O       | MCP150/C/U/MED/830                  | MHC150/C/U/MP/3K/ALTO  |
| CMH150/U/942/MED/O         | —                                   | MHC150/U/MP/4K/ALTO    |
| CMH150/C/U/942/MED/O       | —                                   | MHC150/C/U/MP/4K/ALTO  |
| CMH20/T/U/830/G12          | —                                   | —                      |
| CMH39/T/U/830/G12          | MC39T6/U/G12/830                    | CDM35/T6/830           |
| CMH39/TC/U/942/G12         | MC39T6/U/G12/940                    | —                      |
| CMH70/T/U/830/G12          | MC70T6/U/G12/830                    | CDM70/T6/830           |
| CMH70/T/U/942/G12          | MC70T6/U/G12/940                    | CDM70/T6/942           |
| CMH150/T/U/830/G12         | MC150T6/U/G12/830                   | CDM150/T6/830          |
| CMH150/T/U/942/G12         | MC150T6/U/G12/940                   | CDM150/T6/942          |
| CMH70/TD/830/Rx7s          | MC70T6/DE/830                       | CDM70/TD/830           |
| CMH70/TD/942/Rx7s          | —                                   | CDM70/TD/942           |
| CMH150/TD/830/Rx7s         | MC150T6/DE/830                      | CDM150/TD/830          |
| CMH150/TD/942/Rx7s         | —                                   | CDM150/TD/942          |

| GE<br>Description                         | Osram/Sylvania<br>Description       | Philips<br>Description |
|-------------------------------------------|-------------------------------------|------------------------|
| ORDER THIS<br>GE LAMP                     | IF YOU CURRENTLY USE<br>THESE LAMPS |                        |
| CERAMIC METAL HALIDE LAMPS (CONTINUED)    |                                     |                        |
| CMH250/PA/O-SPXX                          | MCP250/PS/BU-only/940               | —                      |
| CMH320/PA/O-SPXX                          | MCP320/PS/BU/840/BT37               | CDM320/V/O/PS/4K       |
| CMH350/PA/O-SPXX                          | —                                   | CDM350/V/O/PS/4K       |
| CMH400/BU/PA/O-SPXX                       | —                                   | CDM350/V/O/PS/4K       |
| CMH20/TC/U/830/GU6.5                      | —                                   | —                      |
| CMH20/TC/U/830/G8.5                       | MC20TC/U/G8.5/830                   | —                      |
| CMH39/TC/U/830/G8.5                       | MC39TC/U/G8.5/830                   | CDM35/TC/830           |
| CMH39/TC/U/942/G8.5                       | MC39TC/U/G8.5/942                   | CDM35/TC/942           |
| CMH70/TC/U/830/G8.5                       | MC70TC/U/G8.5/830                   | CDM70/TC/830           |
| CMH70/TC/U/942/G8.5                       | MC70TC/U/G8.5/942                   | CDM70/TC/942           |
| MULTI-VAPOR® PULSEARC® METAL HALIDE LAMPS |                                     |                        |
| MXR32C/VBU                                | —                                   | —                      |
| MXR50/U/MED                               | MP50/U/MED                          | MH50/U/M               |
| MXR50/C/U/MED                             | MP50/C/U/MED                        | MH50/C/U/M             |
| MXR70/U/MED                               | MH70/U/MED                          | MHC70/U/M/3K           |
| MXR70/C/U/MED                             | MH70/C/U/MED                        | MHC70/C/U/M/3K         |
| MXR70/U/MED/O                             | MP70/U/MED                          | MHC70/C/U/M/3K         |
| MXR70/C/U/MED/O                           | MP70/C/U/MED                        | MHC70/C/U/M/3K         |
| MXR100/U/MED                              | M100/U/MRD                          | MHC100/U/M/3K          |
| MXR100/C/U/MED                            | MH100/C/U/MED                       | MHC100/C/U/M/3K        |
| MVR100/U/MED                              | MH100/U/4K/MED                      | MHC100/U/M/4K          |
| MVR100/C/U/MED                            | —                                   | MHC100/C/U/M/4K        |
| MXR100/U/MED/O                            | MP100/U/MED                         | MHC100/U/M/3K          |
| MXR100/C/U/MED/O                          | MP100/C/U/MED                       | MHC100/C/U/M/3K        |
| MXR150/U/MED                              | M150/U/MED                          | MH150/U/M              |
| MXR150/C/U/MED                            | M150/C/U/MED                        | MH150/C/U/M            |
| MVR175/VBU/PA                             | MS175/PS/BU                         | MS175/BU/PS            |
| MVR175/C/VBU/PA                           | MS175/C/PS/BU                       | —                      |
| MVR250/VBU/PA                             | MS250/PS/BU                         | MS250/BU/PS            |
| MVR250/C/VBU/PA                           | MS250/C/PS/BU                       | —                      |
| MVR320/VBU/HO/PA                          | MS320/PS/BU                         | MS320/BU/PS            |
| MVR320/C/VBU/HO/PA                        | MS320/C/PS/BU-HOR                   | MS320/C/BU/PS          |
| MPR320/VBU/XHO/PA                         | MP320/350/PS/BU                     | MP320/BU/PS            |
| MPR320/C/VBU/XHO/PA                       | MP320/350/C/PS/BU                   | MP320/C/BU/PS          |
| MPR350/VBU/PA                             | MP320/350/PS/BU                     | MP350/BU/PS            |
| MPR350/C/VBU/PA                           | MP320/350/C/PS/BU                   | MP350/C/BU/PS          |
| MPR400/VBU/XHO/PA                         | MP350/400/PS/BU                     | MP400/BU/PS            |
| MPR400/C/VBU/XHO/PA                       | MP350/400/C/PS/BU                   | MP400/C/BU/PS          |
| MVR750/VBU/PA                             | MS750/PS/BU-HOR/BT37                | —                      |
| MVR750/C/VBU/PA                           | MS750/C/PS/BU-HOR/BT37              | —                      |
| MVR1000/BT37/PA                           | M1000/PS/U/BT37                     | MS1000/BU/BT37/PS      |



# High Intensity Discharge Lamps

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## HID LAMPS CROSS REFERENCE (CONTINUED)

| GE<br>Description                        | Osram/Sylvania<br>Description       | Philips<br>Description |
|------------------------------------------|-------------------------------------|------------------------|
| ORDER THIS<br>GE LAMP                    | IF YOU CURRENTLY USE<br>THESE LAMPS |                        |
| MULTI-VAPOR® STANDARD METAL HALIDE LAMPS |                                     |                        |
| MVR175/U/MED                             | M175/U/MED                          | MH175/U/M              |
| MVR175/C/U/MED                           | M175/C/U/MED                        | MH175/C/U/M            |
| MVR175/U                                 | M175/U                              | MH175/U                |
| MVR175/C/U                               | M175/C/U                            | MH175/C/U              |
| MVR175/HOR                               | MS175/HOR                           | MS175/HOR              |
| MVR175/C/HOR                             | MS175/C/HOR                         | MS175/C/HOR            |
| MVR250/U                                 | M250/U                              | MH250/U                |
| MVR250/C/U                               | M250/C/U                            | MH250/C/U              |
| MVR250/SP30/U                            | M2503K/BU-only                      | MH250/3K/BU            |
| MVR250/HOR                               | MS250/HOR                           | MS250/HOR              |
| MVR250/C/HOR                             | MS250/C/HOR                         | MS250/C/HOR            |
| MVR400/U                                 | M400/U                              | MH400/U                |
| MVR400/C/U                               | M400/C/U                            | MH400/C/U              |
| MVR400/SP30/U                            | MS400/BU                            | MH400/3K/U             |
| MVR400/VBU                               | MS400/BU                            | MS400/BU               |
| MVR400/VBD                               | MS400/BD                            | —                      |
| MVR400/C/VBU                             | MS400/C/BU                          | MS400/C/BU&            |
| MVR400/C/VBD                             | MS400/C/BD                          | —                      |
| MVR400/HOR                               | MS400/HOR                           | MS400/HOR              |
| MVR400/C/HOR                             | MS400/C/HOR                         | MS400/C/HOR            |
| MVR400/SP30/HOR                          | MS400/3K/HOR                        | —                      |
| MPR400/U                                 | MP400/BU                            | MP400/U                |
| MPR400/VBU                               | MP400/BU/BD                         | —                      |
| MVR1000/U                                | M1000/U                             | MH1000/U               |
| MVR1000/C/U                              | M1000/C/U                           | MH1000/C/U             |
| MVR1000/VBU                              | MS1000/BU                           | MS1000/BU              |
| MPR1000/VBU/O                            | MP1000/BU                           | MP1000/BU              |
| MVR1500/U/SPORTS                         | M1500/BU-HOR                        | MH1500BU               |
| DOUBLE-ENDED LAMPS                       |                                     |                        |
| ARC70/TD/730/R7S                         | HQI-DE70/WDX                        | CDM70/TD/830           |
| ARC70/TD/743/R7S                         | —                                   | MHN70/TD/840           |
| ARC150/TD/730/R7S                        | HQI-DE150/WDX                       | CDM150/TD/830          |
| ARC150/TD/742/R7S                        | HQI-DE150/NDX                       | MHN150/TD/840          |
| SAFETY METAL HALIDE LAMPS                |                                     |                        |
| MVT400/VBU                               | MPT400/BU                           | MHT400/U               |
| MVT400/C/VBU                             | MPT400/C/BU                         | MHT400/C/U             |

| GE<br>Description                  | Osram/Sylvania<br>Description       | Philips<br>Description |
|------------------------------------|-------------------------------------|------------------------|
| ORDER THIS<br>GE LAMP              | IF YOU CURRENTLY USE<br>THESE LAMPS |                        |
| MERCURY VAPOR LAMPS                |                                     |                        |
| HR40/50DX45-46                     | H45/46DL-40/50/DX                   | H46DL-40-50/DX         |
| HR75DX43                           | H43AV-75/DX                         | H43AV-75/DX            |
| HR75/100PFL43-44                   | —                                   | —                      |
| HR100DX38/E17                      | —                                   | —                      |
| HR100A38/A23                       | —                                   | —                      |
| HR100DX38/A23                      | H38AV-100/DX                        | H38MP-100/DX           |
| HR100A38                           | H38HT-100                           | H38HT-100              |
| HR100DX38                          | H38JA-100/DX                        | H38JA-100/DX           |
| HT100DX38                          | H38JA-T100/DX                       | H38JA-T100/DX          |
| HR100WDX38                         | H38JA-100/N                         | —                      |
| HR100RFL38                         | —                                   | —                      |
| HR100RDXFL38                       | H38BP-100/DX                        | H38BP-100/DX           |
| HR100PSP44                         | H44GS-100                           | H44GS-100              |
| HR100PFL44                         | H44JM-100                           | —                      |
| HR175A39                           | H39KB-175                           | H39KB-175              |
| HR175DX39                          | H39KC-175/DX                        | H39KC-175/DX           |
| HT175DX39                          | H39KC-T175/DX                       | H39KC-T175             |
| HR175WDX39                         | H39KC-175/N                         | —                      |
| HR175RFL39                         | —                                   | H39BM-175              |
| HR175RDXFL39                       | H39BP-175/DX                        | H39BP-175/DX           |
| HR250A37                           | H37KB-250                           | H37KB-250              |
| HR250DX37                          | H37KC-250/DX                        | H37KC-250/DX           |
| HT250DX37                          | H37KC-T250/DX                       | H37KC-T250/DX          |
| HR250WDX37                         | H37KC-250/N                         | —                      |
| HR400A33                           | H33CD-400                           | H33CD-400              |
| HR400DX33                          | H33GL-400/DX                        | H33GL-400/DX           |
| HR400DX33BT                        | —                                   | —                      |
| HT400DX33                          | H33GL-T400/DX                       | H33GL-T400/DX          |
| HR400WDX33                         | H33GL-400/N                         | —                      |
| HR400R33                           | —                                   | —                      |
| HR400RDX33                         | —                                   | H33DN-400/DX           |
| HR400RDXFL33                       | —                                   | H33FS-400/DX           |
| HR400RSP33                         | —                                   | —                      |
| HR400A33/T16                       | H33AR-400                           | —                      |
| HR700DX35                          | —                                   | H35ND-700/DX           |
| HR1000DX34                         | H34GV-1000                          | —                      |
| HR1000DX34                         | H34GW-1000/DX                       | H34GW-1000/DX          |
| HR1000A36                          | H36GV-1000                          | H36GV-1000             |
| HR1000DX36                         | H36GW-1000/DX                       | H36GW-1000/DX          |
| HT1000DX36                         | H36GW-T1000/DX                      | H36GW-T1000/DX         |
| SELF-BALLASTED MERCURY VAPOR LAMPS |                                     |                        |
| HSB160/M                           | —                                   | —                      |
| HSB250                             | —                                   | S250E28/DX             |
| HSB250/M                           | —                                   | S250E28/DX/M           |
| HSB450                             | —                                   | S450BT37/C             |
| HSB750R/120                        | —                                   | S750R57                |



## T5 STARCOAT® ECOLUX® LAMPS

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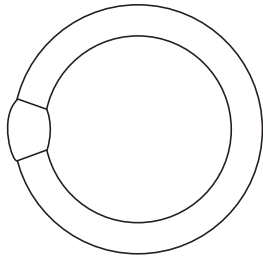


## Fluorescent Lamps

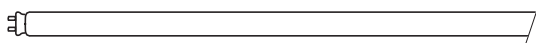
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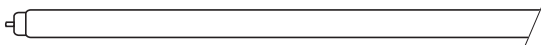
### LAMP LOCATOR (NOT DRAWN TO SCALE)



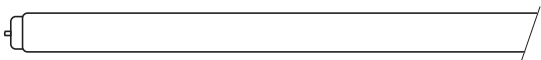
**T9 Circline (1 $\frac{1}{8}$ " diameter) 4-Pin Base (G10q)**



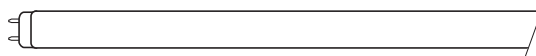
**T5 ( $\frac{5}{8}$ " diameter) Miniature Bipin Base (G5)**



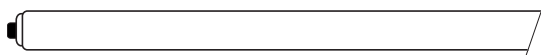
**T6 ( $\frac{3}{4}$ " diameter) Single Pin Base (Fa8)**



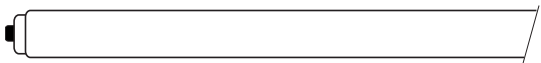
**T8 (1" diameter) Single Pin Base (Fa8)**



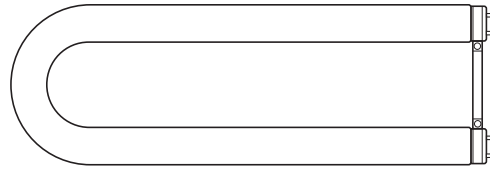
**T8 (1" diameter) Medium Bipin Base (G13)**



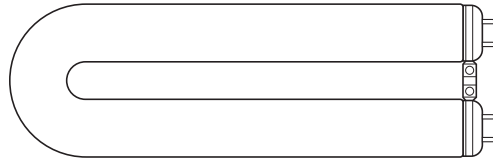
**T8 (1" diameter) Recessed Double Contact Base (R17d)**



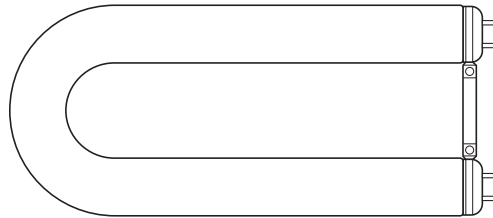
**T10 (1 $\frac{1}{4}$ " diameter) Recessed Double Contact Base (R17d)**



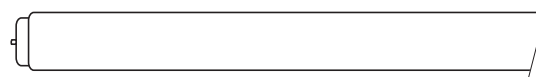
**Mod-U-Line® T8/U6 (1" diameter) Medium Bipin Base (G13)**



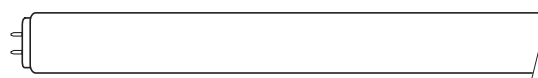
**Mod-U-Line® T12/U3 (1 $\frac{1}{2}$ " diameter) Medium Bipin Base (G13)**



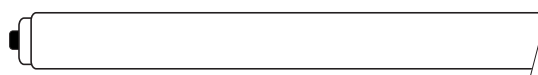
**Mod-U-Line® T12/U6 (1 $\frac{1}{2}$ " diameter) Medium Bipin Base (G13)**



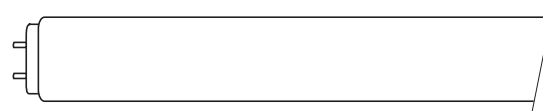
**T12 (1 $\frac{1}{2}$ " diameter) Single Pin Base (Fa8)**



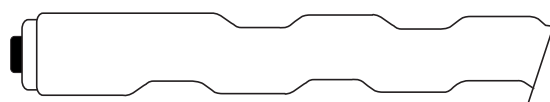
**T12 (1 $\frac{1}{2}$ " diameter) Medium Bipin Base (G13)**



**T12 (1 $\frac{1}{2}$ " diameter) Recessed Double Contact Base (R17d)**



**T17 (2 $\frac{1}{8}$ " diameter) Mogul Bipin (G20)**



**Power Groove® (2 $\frac{1}{8}$ " diameter)  
Recessed Double Contact Base (R17d)**

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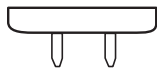


## Fluorescent Lamps

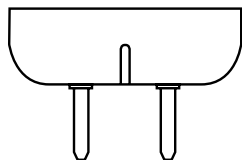
### BASE IDENTIFICATION



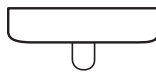
**Min Bipin**  
**G5**



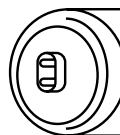
**Med Bipin**  
**G13**



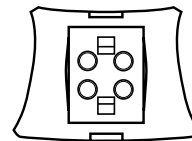
**Mog Bipin**  
**G20**



**Single Pin**  
**Fa8**



**Recessed Double**  
**Contact**  
**R17d**



**4-Pin**  
**G10q**  
**(Circline)**

### INTRODUCTION

GE introduced the first fluorescent lamp in 1939. Today, these lamps have become almost a universal standard in office and other lighting applications. The characteristics of fluorescent lamps vary widely according to the lamp type. In general, fluorescent lamps have the following advantages:

- **Low Operating Cost:**

Efficient, fluorescent lamps can cost significantly less to operate over their lifetime than incandescent lamps. Many common linear fluorescent lamps now have energy saving versions often designated in this catalog by Watt-Miser® (WM).

- **Long Life:**

Life ratings for fluorescent lamps range from 6000 to 30,000 hours based on the industry standard of 3 burning hours per start, except where noted.

- **Light Quality:**

GE Starcoat® T5 and T8 lamps offer higher color rendering and lumen maintenance of 95%.

- **Flexibility:**

Fluorescent lamps are available in a wide range of sizes, shapes, color performance, and wattage ratings.

- **Fast Starting:**

Rapid-Start and Instant-Start lamps typically start within 1 second of being turned on.

#### FLUORESCENT BRAND NAME CROSS-REFERENCE

| GE                          | OSRAM/SYLVANIA         | PHILIPS                      |
|-----------------------------|------------------------|------------------------------|
| Aquarium/Terrarium          | —                      | —                            |
| Chroma 50                   | Design 50®             | Colortone 50                 |
| CovGuard®                   | —                      | —                            |
| Ecolux®                     | Ecologic               | Alto                         |
| Gro & Sho™/Plant & Aquarium | GRO-LUX®               | Agro-Lite                    |
| Kitchen and Bath ULTRA™     | Interior Design® (D30) | Softone Pastel FL (SPEC. 30) |
| Mod-U-Line®                 | Curvalume®             | U-Bent                       |
| Power Groove®               | —                      | —                            |
| Specification Series (SP)   | Designer® Series (D)   | SPEC Series                  |
| Specification Series (SPX)  | Designer® "800" Series | Ultralume™                   |
| Starcoat®                   | —                      | —                            |
| T5                          | Pentron®               | Silhouette™                  |
| T8                          | Octron®                | TL70/TL80™                   |
| T10/1500MA                  | VHO/LT                 | —                            |
| /1500                       | VHO                    | VHO                          |
| Watt-Miser®                 | SuperSaver®            | Econ-o-Watt                  |
| Watt-Miser® Plus            | SuperSaver Plus®       | —                            |
| XL                          | XP                     | Advantage                    |

**ATTENTION:** This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturer's performance specifications and product offerings should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

**See [www.gelighting.com](http://www.gelighting.com) e-Catalog**  
**for a comprehensive cross-reference tool.**



## PRODUCT INFORMATION

### GE T5 STARCOAT® ECOLUX® LAMPS (pgs 4-7 to 4-8)

- Used in a variety of applications from indirect fixtures in commercial office buildings to warehouses and manufacturing facilities
- Many combinations of wattage and length provide flexibility of fixture design and ceiling layout
- Longer rated life at 30,000 hours
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

### GE T8 STARCOAT® ECOLUX® LAMPS (pgs 4-8 to 4-9 and 4-27)

- More light over life – 95% lumen maintenance
- Enhanced color rendering... available in 700 and 800 series
- High system efficiency, relative to T12, delivers significant energy cost savings
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

### GE STARCOAT® ECOLUX® XL EXTRA-LIFE LAMPS (pgs 4-8 to 4-9)

- Same great features of the T8 Starcoat® Ecolux®... with longer life... up to 20% longer than standard T8 lamps

### ULTRA~T8 REPLACEMENT (ENERGY-SAVING ALTERNATIVE) GE T8 30W WATT-MISER® (pg 4-9)

- Energy-saving replacement lamp for all standard T8's on Instant Start Ballast systems
- Up to 5% savings over 32W T8 systems with maintained light levels
- Operates on any standard T8 Instant Start Ballast
- Also approved for use on GE UltraStart PRS Ballast
- Available in XL version – 20% longer life than standard T8 lamps
- All T8 Watt-Miser® lamps are TCLP Compliant and may reduce disposal costs
- 80+ CRI (Color Rendering Index)

### ULTRA~T12 RETROFIT (ENERGY-SAVING ALTERNATIVE) GE T8 28W ULTRAMAX® (pg 4-9)

- Highly efficient T8 system utilizing the new 28W T8 lamp designed for optimal use on the GE UltraMax® ballast product family
- Operates on any standard T8 Instant Start Ballast
- Also approved for use on GE UltraStart PRS Ballast
- 80+ CRI (Color Rendering Index) and TCLP Compliant

### ULTRA~NEW CONSTRUCTION (ENERGY-SAVING ALTERNATIVE) GE T8 32W HIGH LUMEN LAMPS (HL) (pg 4-10)

- 5-8% more lumens than GE 32W T8 SP and SPX
- 3100 initial lumens allows you to increase light levels over a standard T8 or the option to implement a de-lamp or de-fixture strategy
- 20% longer life over GE F32T8
- 80+ CRI (Color Rendering Index) and TCLP Compliant

### GE T8 MOD-U-LINE® U-SHAPED FLUORESCENT LAMPS (pg 4-11)

- Primarily used in 2x2 fixtures with prismatic or parabolic lenses
- Lower energy cost... 36% energy cost savings vs. F40T12 U-Tubes
- Longer lamp life than T12 Mod-U-Line® – 20,000 hours
- 700 and 800 Series

### GE 8' T8 LAMPS (pg 4-10)

- One of the most efficient fluorescent products available, up to 97 lumens per watt (LPW)
- Single-pin based lamps designed to operate on Instant Start Ballast
- Available in longer life (XL) versions... up to 17% longer life

### GE 8' T8 WATT-MISER® (XL) EXTRA LIFE LAMPS (ENERGY-SAVINGS ALTERNATIVE) (pg 4-10)

- Extra-life... lasts 17% longer than standard F96T8 lamps for reduced lamp replacement and maintenance cost
- Maximum energy savings... up to 3.5% less energy consumed than standard F96T8 lamps
- Same light output as standard lamps
- Excellent color... color enhanced SP and SPX versions
- New Watt-Miser® Plus lamp reduces wattage to 54W per lamp

### GE 8' T8 HIGH OUTPUT LAMPS (pg 4-10)

- High system efficiency delivers 38% energy cost savings
- 50% longer life than T12 high output lamps
- Wide choice of color options
- Operate at 400mA

### GE 4' T12 ECOLUX® RAPID START LAMPS (pgs 4-12 to 4-13 and 4-29)

- Popular for commercial lighting
- Upgrade new and existing facilities easily... change the lamp to SP/SPX color-improved lamps, available in Watt-Miser® version
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

### GE 4' T12 WATT-MISER® ECOLUX® ENERGY-SAVING LAMPS (WM) (pg 4-12 to 4-13 and 4-28 to 4-29)

- Energy-saving replacement for all standard T12 fluorescent lamps
- 12% to 20% savings in energy costs vs. standard fluorescent
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

### GE T12 MOD-U-LINE® U-SHAPED LAMPS (pgs 4-14 and 4-28)

- Available in standard and Watt-Miser® versions
- Operate on standard or electronic Rapid Start Ballasts

### GE T12 HIGH OUTPUT LAMPS (pgs 4-16 to 4-17 and 4-29)

- High light output and long life
- Produces about 45% more initial lumens than standard lamps of the same size
- Usually operated at 800mA

### GE T12 VERY HIGH OUTPUT LAMPS (pg 4-17)

- Where high light levels are required – factories, warehouses, gymnasiums, open areas
- Rapid Start, operated at 1500mA



## PRODUCT INFORMATION (CONTINUED)

### COVRGUARD® SHATTER PROTECTED FLUORESCENT LAMPS (pgs 4-19 to 4-23 and 4-30)

- Polycarbonate shield effectively contains shattered glass particles if lamp is broken, protecting people, food and other valuable items
- UV blocking properties guard against fading and UV degradation
- Available in a variety of colors for decorative and architectural applications
- The covRguard® feature is available on nearly all fluorescent lamps

### GE COLD-TEMPERATURE LAMPS (pg 4-23 to 4-24)

- Specifically designed for cold temperature applications such as freezers and coolers, display cases and outdoor areas
- Available in T8, T10 and T12 versions
- Rated nominal watts and initial lumens are peak values. Actual watt and lumen values may be somewhat lower in service, depending on ambient conditions.

### GE APPLIANCE LAMPS (pg 4-24 to 4-25)

- Designed for intermittent service in appliances such as oven hoods and microwaves

### GE BLACKLIGHT AND REPROGRAPHIC (pgs 4-25 and 4-30)

- Blacklight (BL) lamps are commonly used in insect traps
- Blacklight Blue (BLB) lamps are often used decoratively in disco lighting and theatrical applications. These lamps are produced with a special dark blue glass that filters most visible light.
- The Diazo lamp emits a blue light, peaking at approximately 417nm which is used primarily in reprographic equipment

### GE CINEMA FLUORESCENT LAMPS (See Stage and Studio Section)

- Specifically designed to be used in cinematography applications and are color corrected to match the spectral sensitivity of film
- For more information and product details, visit the Stage & Studio section of this catalog

### GE GOLD LAMPS (pgs 4-25 to 4-26)

- Effectively blocks all UV emissions below 520nm
- Available in covRguard®
- Used in photo-sensitive applications such as semi-conductor assembly and darkrooms

### GE GERMICIDAL LAMPS (pg 4-26)

- Clear lamps with special UV transmitting glass
- The 254nm radiation penetrates and inactivates the DNA of most micro-organisms
- Used in air, water and surface purification applications

### GE BALLASTS

Energy efficiency and high performance make GE Electronic Ballasts and GE Fluorescent Lamps the perfect match for total performance.

- Energy efficient – GE offers a highly efficient system to dramatically reduce electricity costs... GE UltraMax® Ballasts
- Outstanding quality
- Technical hotline provides specification and application support
- Electromagnetic, HID, CFL, and Sign ballasts also available from GE

See **GE Ballast System Catalog** for more information.

### ULTRAMAX® BALLAST (pgs 4-36 to 4-37)

- The GE UltraMax® Ballast can be used with F32T8, F32T8/WM, and F28T8/UMX lamps. The UltraMax™ Ballast is Multi-Voltage for use in 120V and 277V applications.
- The UltraMax® Ballast is available in low (.77), normal (.87), and high (1.15) ballast factors.
- The UltraMax® Ballast is equipped with ArcGuard Protection, UL Type CC Anti-Arc Rating, and Striation Control.





## Fluorescent Lamps

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**1-800-743-0005**  
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### HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Fluorescent lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage, then bulb, and then by base. There are exceptions to this ordering among the specialty lamps listed.

#### Order Code:

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

#### Nominal Length in.:

Lamp length including base and/or pins.

#### Watts:

Energy used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

#### Bulb:

Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

#### Base:

The type of base.

#### Mean Lumens:

Lamp light output at 40% of rated lamp life.

#### Initial Lumens:

Lamp light output after the initial 100 hours of operation.

#### Rated Life - Hours:

Lamp burning hours to median life expectancy.

#### Case Quantity:

Number of product units packed in a case.

#### Description:

The lamp's identification code.

#### Color Temperature Kelvins (K):

A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears.

#### Color Rendering Index (CRI or Ra):

An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.



Means this lamp meets Federal Minimum Efficiency Standards.



Indicates that this is a lamp with high color rendering, which helps objects and persons illuminated to appear more true to life.



Indicates that this is a reduced wattage option for lamps normally used in this application. Be sure to check wattage, lumens and life to determine which lamp is best suited to your needs.

#### Additional Information:

Typical application and/or other important information.

|                                |                    | Nominal Length Order |     |       |                 | Rated Life |         | Color          |      |         | Warning and |             |          |                        |
|--------------------------------|--------------------|----------------------|-----|-------|-----------------|------------|---------|----------------|------|---------|-------------|-------------|----------|------------------------|
| Bulb                           | Base               | Watts                | in. | Code  | Description     | Case Qty.  | (hours) | Lumens Initial | Mean | Temp. K | CRI         | Foot- notes | Cautions | Additional Information |
| T8 STARCOAT® LAMPS             |                    |                      |     |       |                 |            |         |                |      |         |             |             |          |                        |
| 3' T8 ECOLUX® - TCLP COMPLIANT |                    |                      |     |       |                 |            |         |                |      |         |             |             |          |                        |
| T8                             | Medium BiPin (G13) | 25                   | 36  | 45753 | F25T8/SPX30/ECO | 24         | 20000   | 2150           | 2040 | 3000    | 86          |             |          |                        |

## F 25 T8 / SPX30 / ECO

Identifies as  
Fluorescent  
lamp.

Identifies either  
the lamp's  
wattage or its  
length in inches.

Identifies the lamp  
shape and the  
bulb diameter in  
eighths of an inch.

Identifies the lamp  
finish or color.

Identifies TCLP  
compliance.

### WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using table on page 4-2.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 4-3.
4. Find your lamp in the table containing the bulb shape, size and base.

### GE T8 ULTRA "ENERGY SAVING PRODUCTS"

energy & ecolux® at work

**ULTRA**

F32 WATT-MISER®

**REPLACEMENT FOR T8**

F32T8/SP/IS/WM/ECO  
F32T8/XL/SP/WM/ECO

Replace F32T8 lamps with the F32T8/WM. Up to 5% is saved instantly. For greater savings use F28T8/UMX lamps.

energy & ecolux® at work

**ULTRA**

F28 ULTRAMAX®

**RETROFIT FOR T12**

F28T8/SP/UMX/ECO

Retrofit 4' T12 Systems with the 28W T8 UltraMax®. The ultimate in energy efficiency. Over 40% savings realized.

energy & ecolux® at work

**ULTRA**

F32 HIGH LUMEN

**NEW CONSTRUCTION**

F32T8/XL/SPX/HL/ECO

De-lamp or use fewer fixtures in new construction. Higher light output means fewer total lamps may be needed to achieve desired footcandle levels. 5-6% higher lumens versus standard T8.



| Bulb Base                 | Nominal Length Order |      |       | Description     | Case Qty. | Rated Life    |                | Lumens  |      | Color Temp. |     | Foot-<br>notes | Warning<br>and<br>Cautions |     | Additional Information |
|---------------------------|----------------------|------|-------|-----------------|-----------|---------------|----------------|---------|------|-------------|-----|----------------|----------------------------|-----|------------------------|
|                           | Watts                | in.  | Code  |                 |           | 3hr/<br>Start | 12hr/<br>Start | Initial | Mean | K           | CRI |                |                            |     |                        |
| T5 STARCOAT ECOLUX® LAMPS |                      |      |       |                 |           |               |                |         |      |             |     |                |                            |     |                        |
| HIGH EFFICIENCY           |                      |      |       |                 |           |               |                |         |      |             |     |                |                            |     |                        |
| T5 Miniature BiPin (G5)   | 14                   | 21.6 | 31590 | F14W/T5/830/ECO | 40        | 30000         | 36000          | 1350    | 1240 | 3000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46671 | F14W/T5/835/ECO | 40        | 30000         | 36000          | 1350    | 1240 | 3500        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46673 | F14W/T5/841/ECO | 40        | 30000         | 36000          | 1350    | 1240 | 4100        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46674 | F14W/T5/850/ECO | 40        | 30000         | 36000          | 1300    | 1190 | 5000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46676 | F14W/T5/865/ECO | 40        | 30000         | 36000          | 1250    | 1150 | 6500        | 85  | ☞              | 19                         | 101 |                        |
|                           | 21                   | 33.4 | 46677 | F21W/T5/830/ECO | 40        | 30000         | 36000          | 2100    | 1930 | 3000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46684 | F21W/T5/835/ECO | 40        | 30000         | 36000          | 2100    | 1930 | 3500        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46687 | F21W/T5/841/ECO | 40        | 30000         | 36000          | 2100    | 1930 | 4100        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46688 | F21W/T5/850/ECO | 40        | 30000         | 36000          | 2000    | 1840 | 5000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46689 | F21W/T5/865/ECO | 40        | 30000         | 36000          | 1950    | 1790 | 6500        | 85  | ☞              | 19                         | 101 |                        |
|                           | 28                   | 45.2 | 46704 | F28W/T5/830/ECO | 40        | 30000         | 36000          | 2900    | 2660 | 3000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46705 | F28W/T5/835/ECO | 40        | 30000         | 36000          | 2900    | 2660 | 3500        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46706 | F28W/T5/841/ECO | 40        | 30000         | 36000          | 2900    | 2660 | 4100        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46707 | F28W/T5/850/ECO | 40        | 30000         | 36000          | 2750    | 2530 | 5000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46708 | F28W/T5/865/ECO | 40        | 30000         | 36000          | 2700    | 2480 | 6500        | 85  | ☞              | 19                         | 101 |                        |
|                           | 35                   | 57.1 | 46724 | F35W/T5/830/ECO | 40        | 30000         | 36000          | 3650    | 3350 | 3000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46727 | F35W/T5/835/ECO | 40        | 30000         | 36000          | 3650    | 3350 | 3500        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46735 | F35W/T5/841/ECO | 40        | 30000         | 36000          | 3650    | 3350 | 4100        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46742 | F35W/T5/850/ECO | 40        | 30000         | 36000          | 3500    | 3220 | 5000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46743 | F35W/T5/865/ECO | 40        | 30000         | 36000          | 3400    | 3120 | 6500        | 85  | ☞              | 19                         | 101 |                        |
| HIGH OUTPUT               |                      |      |       |                 |           |               |                |         |      |             |     |                |                            |     |                        |
| T5 Miniature BiPin (G5)   | 24                   | 21.6 | 46699 | F24W/T5/830/ECO | 40        | 30000         | 36000          | 2000    | 1840 | 3000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46700 | F24W/T5/835/ECO | 40        | 30000         | 36000          | 2000    | 1840 | 3500        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46701 | F24W/T5/841/ECO | 40        | 30000         | 36000          | 2000    | 1840 | 4100        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46702 | F24W/T5/850/ECO | 40        | 30000         | 36000          | 1900    | 1740 | 5000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46703 | F24W/T5/865/ECO | 40        | 30000         | 36000          | 1900    | 1740 | 6500        | 85  | ☞              | 19                         | 101 |                        |
|                           | 39                   | 33.4 | 46744 | F39W/T5/830/ECO | 40        | 30000         | 36000          | 3500    | 3220 | 3000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46745 | F39W/T5/835/ECO | 40        | 30000         | 36000          | 3500    | 3220 | 3500        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46746 | F39W/T5/841/ECO | 40        | 30000         | 36000          | 3500    | 3220 | 4100        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46747 | F39W/T5/850/ECO | 40        | 30000         | 36000          | 3350    | 3080 | 5000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46748 | F39W/T5/865/ECO | 40        | 30000         | 36000          | 3330    | 3060 | 6500        | 85  | ☞              | 19                         | 101 |                        |
|                           | 54                   | 45.2 | 46759 | F54W/T5/830/ECO | 40        | 30000         | 36000          | 5000    | 4600 | 3000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46760 | F54W/T5/835/ECO | 40        | 30000         | 36000          | 5000    | 4600 | 3500        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46761 | F54W/T5/841/ECO | 40        | 30000         | 36000          | 5000    | 4600 | 4100        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46762 | F54W/T5/850/ECO | 40        | 30000         | 36000          | 4800    | 4410 | 5000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46763 | F54W/T5/865/ECO | 40        | 30000         | 36000          | 4750    | 4370 | 6500        | 85  | ☞              | 19                         | 101 |                        |
|                           | 49                   | 57.1 | 46751 | F49W/T5/830/ECO | 40        | 30000         | 36000          | 4900    | 4500 | 3000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46752 | F49W/T5/835/ECO | 40        | 30000         | 36000          | 4900    | 4500 | 3500        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46753 | F49W/T5/841/ECO | 40        | 30000         | 36000          | 4900    | 4500 | 4100        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46757 | F49W/T5/850/ECO | 40        | 30000         | 36000          | 4700    | 4320 | 5000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46758 | F49W/T5/865/ECO | 40        | 30000         | 36000          | 4650    | 4270 | 6500        | 85  | ☞              | 19                         | 101 |                        |
|                           | 80                   | 57.1 | 46802 | F80W/T5/830/ECO | 40        | 30000         | 36000          | 7000    | 6440 | 3000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46803 | F80W/T5/835/ECO | 40        | 30000         | 36000          | 7000    | 6440 | 3500        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46804 | F80W/T5/841/ECO | 40        | 30000         | 36000          | 7000    | 6440 | 4100        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46805 | F80W/T5/850/ECO | 40        | 30000         | 36000          | 6700    | 6160 | 5000        | 85  | ☞              | 19                         | 101 |                        |
|                           |                      |      | 46806 | F80W/T5/865/ECO | 40        | 30000         | 36000          | 6650    | 6110 | 6500        | 85  | ☞              | 19                         | 101 |                        |



# Fluorescent Lamps

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| Bulb Base                      | Watts                | Nominal Length Order |      | Description              | Case Qty. | Rated Life    | Lumens         |         | Color Temp. |                 | Foot-<br>notes                                                                           | Warning<br>and<br>Cautions | Additional Information     |                        |
|--------------------------------|----------------------|----------------------|------|--------------------------|-----------|---------------|----------------|---------|-------------|-----------------|------------------------------------------------------------------------------------------|----------------------------|----------------------------|------------------------|
|                                |                      | in.                  | Code |                          |           |               | Initial        | Mean    | K           | CRI             |                                                                                          |                            |                            |                        |
| T5 PREHEAT LAMPS               |                      |                      |      |                          |           |               |                |         |             |                 |                                                                                          |                            |                            |                        |
| 6" T5                          |                      |                      |      |                          |           |               |                |         |             |                 |                                                                                          |                            |                            |                        |
| T5                             | Miniature BiPin (G5) | 4                    | 6    | 10004 F4T5/CW            | 24        | 5000          | 135            | 100     | 4100        | 60              |                                                                                          | 101                        |                            |                        |
|                                |                      |                      |      | 15983 F4T5/CW CARD       | 10        | 5000          | 135            | 100     | 4100        | 60              |                                                                                          | 101                        |                            |                        |
| 9" T5                          |                      |                      |      |                          |           |               |                |         |             |                 |                                                                                          |                            |                            |                        |
| T5                             | Miniature BiPin (G5) | 6                    | 9    | 10032 F6T5/CW            | 24        | 5000          | 295            | 235     | 4100        | 60              |                                                                                          | 101                        |                            |                        |
|                                |                      |                      |      | 15986 F6T5/CW CARD       | 10        | 5000          | 295            | 235     | 4100        | 60              |                                                                                          | 101                        |                            |                        |
|                                |                      |                      |      | 10028 F6T5/D             | 24        | 5000          | 230            | 185     | 6500        | 75 <sup>Ⓔ</sup> |                                                                                          | 101                        |                            |                        |
| 12" T5                         |                      |                      |      |                          |           |               |                |         |             |                 |                                                                                          |                            |                            |                        |
| T5                             | Miniature BiPin (G5) | 8                    | 12   | 10059 F8T5/CW            | 24        | 5000          | 400            | 320     | 4100        | 60              |                                                                                          | 101                        |                            |                        |
|                                |                      |                      |      | 15987 F8T5/CW CARD       | 10        | 5000          | 400            | 320     | 4100        | 60              |                                                                                          | 101                        |                            |                        |
|                                |                      |                      |      | 10055 F8T5/D             | 24        | 5000          | 330            | 265     | 6500        | 75 <sup>Ⓔ</sup> |                                                                                          | 101                        |                            |                        |
|                                |                      |                      |      | 10064 F8T5/WW            | 24        | 5000          | 410            | 330     | 3000        | 52              |                                                                                          | 101                        |                            |                        |
|                                |                      |                      |      | 25425 F8T5/WW/CARD       | 5         | 5000          | 410            | 330     | 3000        | 52              |                                                                                          | 101                        |                            |                        |
| 21" T5                         |                      |                      |      |                          |           |               |                |         |             |                 |                                                                                          |                            |                            |                        |
| T5                             | Miniature BiPin (G5) | 13                   | 21   | 10086 F13T5/CW           | 24        | 5000          | 850            | 705     | 4100        | 60              |                                                                                          | 101                        |                            |                        |
|                                |                      |                      |      | 49333 F13T5/CW/CD        | 5         | 5000          | 850            | 705     | 4100        | 60              |                                                                                          | 101                        |                            |                        |
|                                |                      |                      |      | 10089 F13T5/WW           | 24        | 5000          | 870            | 720     | 3000        | 52              |                                                                                          | 101                        |                            |                        |
|                                |                      |                      |      | 25426 F13T5/WW/CARD      | 5         | 5000          | 870            | 720     | 3000        | 52              |                                                                                          | 101                        |                            |                        |
| Bulb Base                      | Watts                | Nominal Length Order |      | Description              | Case Qty. | Rated Life    |                | Lumens  |             | Color Temp.     |                                                                                          | Foot-<br>notes             | Warning<br>and<br>Cautions | Additional Information |
|                                |                      | in.                  | Code |                          |           | 3hr/<br>Start | 12hr/<br>Start | Initial | Mean        | K               | CRI                                                                                      |                            |                            |                        |
| T8 STARCOAT® LAMPS             |                      |                      |      |                          |           |               |                |         |             |                 |                                                                                          |                            |                            |                        |
| 2' T8 ECOLUX® - TCLP COMPLIANT |                      |                      |      |                          |           |               |                |         |             |                 |                                                                                          |                            |                            |                        |
| T8                             | Medium BiPin (G13)   | 17                   | 24   | 45741 F17T8/SP30/ECO     | 24        | 20000         | 24000          | 1325    | 1260        | 3000            | 78  | 18                         | 101                        |                        |
|                                |                      |                      |      | 45743 F17T8/SP35/ECO     | 24        | 20000         | 24000          | 1325    | 1260        | 3500            | 78  | 18                         | 101                        |                        |
|                                |                      |                      |      | 45748 F17T8/SP41/ECO     | 24        | 20000         | 24000          | 1325    | 1260        | 4100            | 78  | 18                         | 101                        |                        |
|                                |                      |                      |      | 45742 F17T8/SPX30/ECO    | 24        | 20000         | 24000          | 1350    | 1280        | 3000            | 86  | 18                         | 101                        |                        |
|                                |                      |                      |      | 45747 F17T8/SPX35/ECO    | 24        | 20000         | 24000          | 1350    | 1280        | 3500            | 86  | 18                         | 101                        |                        |
|                                |                      |                      |      | 45749 F17T8/SPX41/ECO    | 24        | 20000         | 24000          | 1350    | 1280        | 4100            | 86  | 18                         | 101                        |                        |
| 2' T8 ECOLUX® XL EXTRA-LIFE    |                      |                      |      |                          |           |               |                |         |             |                 |                                                                                          |                            |                            |                        |
| T8                             | Medium BiPin (G13)   | 17                   | 24   | 15476 F17T8/XL/SP30/ECO  | 24        | 24000         | 29000          | 1325    | 1260        | 3000            | 78  | 18                         | 101                        |                        |
|                                |                      |                      |      | 15479 F17T8/XL/SP35/ECO  | 24        | 24000         | 29000          | 1325    | 1260        | 3500            | 78  | 18                         | 101                        |                        |
|                                |                      |                      |      | 15480 F17T8/XL/SP41/ECO  | 24        | 24000         | 29000          | 1325    | 1260        | 4100            | 78  | 18                         | 101                        |                        |
|                                |                      |                      |      | 15481 F17T8/XL/SPX30/ECO | 24        | 24000         | 29000          | 1350    | 1280        | 3000            | 86  | 18                         | 101                        |                        |
|                                |                      |                      |      | 15483 F17T8/XL/SPX35/ECO | 24        | 24000         | 29000          | 1350    | 1280        | 3500            | 86  | 18                         | 101                        |                        |
|                                |                      |                      |      | 15484 F17T8/XL/SPX41/ECO | 24        | 24000         | 29000          | 1350    | 1280        | 4100            | 86  | 18                         | 101                        |                        |
|                                |                      |                      |      | 10415 F17T8/XL/SPX50/ECO | 24        | 24000         | 29000          | 1300    | 1235        | 5000            | 86  | 18                         | 101                        |                        |
|                                |                      |                      |      | 16092 F17T8/XL/SPX65/ECO | 24        | 24000         | 29000          | 1250    | 1125        | 6500            | 85  | 18                         | 101                        |                        |
| 3' T8 ECOLUX® - TCLP COMPLIANT |                      |                      |      |                          |           |               |                |         |             |                 |                                                                                          |                            |                            |                        |
| T8                             | Medium BiPin (G13)   | 25                   | 36   | 45750 F25T8/SP30/ECO     | 24        | 20000         | 24000          | 2080    | 1970        | 3000            | 78  | 18                         | 101                        |                        |
|                                |                      |                      |      | 45754 F25T8/SP35/ECO     | 24        | 20000         | 24000          | 2080    | 1970        | 3500            | 78  | 18                         | 101                        |                        |
|                                |                      |                      |      | 45756 F25T8/SP41/ECO     | 24        | 20000         | 24000          | 2080    | 1970        | 4100            | 78  | 18                         | 101                        |                        |
|                                |                      |                      |      | 45753 F25T8/SPX30/ECO    | 24        | 20000         | 24000          | 2150    | 2040        | 3000            | 86  | 18                         | 101                        |                        |
|                                |                      |                      |      | 45755 F25T8/SPX35/ECO    | 24        | 20000         | 24000          | 2150    | 2040        | 3500            | 86  | 18                         | 101                        |                        |
|                                |                      |                      |      | 45757 F25T8/SPX41/ECO    | 24        | 20000         | 24000          | 2150    | 2040        | 4100            | 86  | 18                         | 101                        |                        |

<sup>Ⓔ</sup> Means this lamp meets Federal Minimum Efficiency Standards.

See [www.gelighting.com](http://www.gelighting.com) e-catalog for the most up-to-date product information. To convert inches to millimeters, multiply by 25.4.  
All footnote references found at the end of this section.  Reduced Wattage  High Color Rendering.



| Bulb Base                               | Nominal Length Order<br>Watts in. Code Description | Case Qty. | Rated Life |                      | Lumens Initial Mean | Color Temp. K CRI |       | Foot- notes | Warning and Cautions Additional Information |         |          |
|-----------------------------------------|----------------------------------------------------|-----------|------------|----------------------|---------------------|-------------------|-------|-------------|---------------------------------------------|---------|----------|
|                                         |                                                    |           | 3hr/ Start | 12hr/ Start          |                     |                   |       |             |                                             |         |          |
| T8 STARCOAT® LAMPS (CONTINUED)          |                                                    |           |            |                      |                     |                   |       |             |                                             |         |          |
| 3' T8 ECOLUX® XL EXTRA-LIFE             |                                                    |           |            |                      |                     |                   |       |             |                                             |         |          |
| T8                                      | Medium BiPin (G13)                                 | 25 36     | 15486      | F25T8/XL/SP30/ECO    | 24                  | 24000             | 29000 | 2080        | 1970                                        | 3000 78 | 18 101   |
|                                         |                                                    |           | 15487      | F25T8/XL/SP35/ECO    | 24                  | 24000             | 29000 | 2080        | 1970                                        | 3500 78 | 18 101   |
|                                         |                                                    |           | 15488      | F25T8/XL/SP41/ECO    | 24                  | 24000             | 29000 | 2080        | 1970                                        | 4100 78 | 18 101   |
|                                         |                                                    |           | 15489      | F25T8/XL/SPX30/ECO   | 24                  | 24000             | 29000 | 2150        | 2040                                        | 3000 86 | 18 101   |
|                                         |                                                    |           | 15490      | F25T8/XL/SPX35/ECO   | 24                  | 24000             | 29000 | 2150        | 2040                                        | 3500 86 | 18 101   |
|                                         |                                                    |           | 15491      | F25T8/XL/SPX41/ECO   | 24                  | 24000             | 29000 | 2150        | 2040                                        | 4100 86 | 18 101   |
|                                         |                                                    |           | 10416      | F25T8/XL/SPX50/ECO   | 24                  | 24000             | 29000 | 2050        | 1950                                        | 5000 86 | 18 101   |
|                                         |                                                    |           | 16314      | F25T8/XL/SPX65/ECO   | 24                  | 24000             | 29000 | 1950        | 1755                                        | 6500 85 | 18 101   |
| 4' T8 ECOLUX® - TCLP COMPLIANT          |                                                    |           |            |                      |                     |                   |       |             |                                             |         |          |
| T8                                      | Medium BiPin (G13)                                 | 32 48     | 26666      | F32T8/SP30/ECO       | 36                  | 20000             | 24000 | 2800        | 2660                                        | 3000 78 | 18 101   |
|                                         |                                                    |           | 26667      | F32T8/SP35/ECO       | 36                  | 20000             | 24000 | 2800        | 2660                                        | 3500 78 | 18 101   |
|                                         |                                                    |           | 11873      | F32T8/SP35/ECO 12PK  | 12                  | 20000             | 24000 | 2800        | 2660                                        | 3500 78 | 18 101   |
|                                         |                                                    |           | 26668      | F32T8/SP41/ECO       | 36                  | 20000             | 24000 | 2800        | 2660                                        | 4100 78 | 18 101   |
|                                         |                                                    |           | 16090      | F32T8/SP50/ECO       | 36                  | 20000             | 24000 | 2750        | 2610                                        | 5000 78 | 18 101   |
|                                         |                                                    |           | 16091      | F32T8/SP65/ECO       | 36                  | 20000             | 24000 | 2700        | 2565                                        | 6500 78 | 18 101   |
|                                         |                                                    |           | 25611      | F32T8/SPX30/ECO      | 36                  | 20000             | 24000 | 2950        | 2800                                        | 3000 86 | 18 101   |
|                                         |                                                    |           | 25612      | F32T8/SPX35/ECO      | 36                  | 20000             | 24000 | 2950        | 2800                                        | 3500 86 | 18 101   |
|                                         |                                                    |           | 25613      | F32T8/SPX41/ECO      | 36                  | 20000             | 24000 | 2950        | 2800                                        | 4100 86 | 18 101   |
|                                         |                                                    |           | 42064      | F32T8/SPX50/ECO      | 36                  | 20000             | 24000 | 2800        | 2660                                        | 5000 86 | 18 101   |
| 4' T8 ECOLUX® XL EXTRA-LIFE             |                                                    |           |            |                      |                     |                   |       |             |                                             |         |          |
| T8                                      | Medium BiPin (G13)                                 | 32 48     | 27616      | F32T8/XL/SP30ECO     | 36                  | 24000             | 29000 | 2800        | 2660                                        | 3000 78 | 18 101   |
|                                         |                                                    |           | 27617      | F32T8/XL/SP35ECO     | 36                  | 24000             | 29000 | 2800        | 2660                                        | 3500 78 | 18 101   |
|                                         |                                                    |           | 27618      | F32T8/XL/SP41ECO     | 36                  | 24000             | 29000 | 2800        | 2660                                        | 4100 78 | 18 101   |
|                                         |                                                    |           | 27619      | F32T8/XL/SPX30ECO    | 36                  | 24000             | 29000 | 2950        | 2800                                        | 3000 86 | 18 101   |
|                                         |                                                    |           | 27620      | F32T8/XL/SPX35ECO    | 36                  | 24000             | 29000 | 2950        | 2800                                        | 3500 86 | 18 101   |
|                                         |                                                    |           | 27621      | F32T8/XL/SPX41ECO    | 36                  | 24000             | 29000 | 2950        | 2800                                        | 4100 86 | 18 101   |
|                                         |                                                    |           | 16313      | F32T8/XL/SPX50/ECO   | 36                  | 24000             | 29000 | 2800        | 2660                                        | 5000 86 | 18 101   |
|                                         |                                                    |           | 16089      | F32T8/XL/SPX65/ECO   | 36                  | 24000             | 29000 | 2750        | 2475                                        | 6500 85 | 18 101   |
| 4' T8 ECOLUX® SUPER LONG LIFE           |                                                    |           |            |                      |                     |                   |       |             |                                             |         |          |
| T8                                      | Medium BiPin (G13)                                 | 32 48     | 49702      | F32T8/SXL/SP30/ECO   | 36                  | 30000             | 36000 | 2850        | 2675                                        | 3000 84 | 18 101   |
|                                         |                                                    |           | 49778      | F32T8/SXL/SP35/ECO   | 36                  | 30000             | 36000 | 2850        | 2675                                        | 3500 83 | 18 101   |
|                                         |                                                    |           | 49779      | F32T8/SXL/SP41/ECO   | 36                  | 30000             | 36000 | 2850        | 2675                                        | 4100 81 | 18 101   |
| ULTRA ENERGY SAVING T8 LAMPS            |                                                    |           |            |                      |                     |                   |       |             |                                             |         |          |
| 4' T8 ECOLUX® WATT-MISER®               |                                                    |           |            |                      |                     |                   |       |             |                                             |         |          |
| T8                                      | Medium BiPin (G13)                                 | 30 48     | 48277      | F32T8/SP30/IS/WM/ECO | 36                  | 20000             | 24000 | 2850        | 2675                                        | 3000 84 | 1,18 101 |
|                                         |                                                    |           | 48278      | F32T8/SP35/IS/WM/ECO | 36                  | 20000             | 24000 | 2850        | 2675                                        | 3500 83 | 1,18 101 |
|                                         |                                                    |           | 48279      | F32T8/SP41/IS/WM/ECO | 36                  | 20000             | 24000 | 2850        | 2675                                        | 4100 81 | 1,18 101 |
|                                         |                                                    |           | 11791      | F32T8/SP50/IS/WM/ECO | 36                  | 20000             | 24000 | 2750        | 2585                                        | 5000 80 | 1,18 101 |
| 4' T8 ECOLUX® WATT-MISER® XL EXTRA-LIFE |                                                    |           |            |                      |                     |                   |       |             |                                             |         |          |
| T8                                      | Medium BiPin (G13)                                 | 30 48     | 48521      | F32T8/XL/SP30/WM/ECO | 36                  | 24000             | 29000 | 2800        | 2625                                        | 3000 84 | 1,18 101 |
|                                         |                                                    |           | 48522      | F32T8/XL/SP35/WM/ECO | 36                  | 24000             | 29000 | 2800        | 2625                                        | 3500 83 | 1,18 101 |
|                                         |                                                    |           | 48523      | F32T8/XL/SP41/WM/ECO | 36                  | 24000             | 29000 | 2800        | 2625                                        | 4100 81 | 1,18 101 |
|                                         |                                                    |           | 42553      | F32T8/XL/SP50/WM/ECO | 36                  | 24000             | 29000 | 2700        | 2540                                        | 5000 80 | 1,18 101 |
| 4' T8 ECOLUX® ULTRAMAX®                 |                                                    |           |            |                      |                     |                   |       |             |                                             |         |          |
| T8                                      | Medium BiPin (G13)                                 | 28 48     | 00255      | F28T8/SP30/UMX/ECO   | 36                  | 18000             | 24000 | 2750        | 2585                                        | 3000 85 | 1,18 101 |
|                                         |                                                    |           | 00256      | F28T8/SP35/UMX/ECO   | 36                  | 18000             | 24000 | 2750        | 2585                                        | 3500 85 | 1,18 101 |
|                                         |                                                    |           | 00257      | F28T8/SP41/UMX/ECO   | 36                  | 18000             | 24000 | 2750        | 2585                                        | 4100 82 | 1,18 101 |
|                                         |                                                    |           | 42554      | F28T8/SP50/UMX/ECO   | 36                  | 18000             | 24000 | 2650        | 2490                                        | 5000 80 | 1,18 101 |

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All footnote references found at the end of this section. ⚡ Reduced Wattage ⚡ High Color Rendering.



# Fluorescent Lamps

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| Bulb Base | Nominal<br>Length Order<br>Watts in. Code Description | Case<br>Qty. | Rated Life<br>3hr/<br>start 12hr/<br>start | Lumens<br>Initial Mean | Color<br>Temp.<br>K CRI | Foot-<br>notes | Warning<br>and<br>Cautions | Additional Information |
|-----------|-------------------------------------------------------|--------------|--------------------------------------------|------------------------|-------------------------|----------------|----------------------------|------------------------|
|           |                                                       |              |                                            |                        |                         |                |                            |                        |

## ULTRA ENERGY SAVING T8 LAMPS

### 4' T8 ECOLUX® HIGH LUMEN

|    |                    |    |    |       |                       |    |       |       |      |      |      |    |   |    |     |
|----|--------------------|----|----|-------|-----------------------|----|-------|-------|------|------|------|----|---|----|-----|
| T8 | Medium Bipin (G13) | 32 | 48 | 10327 | F32T8/XL/SPX30/HL/ECO | 36 | 24000 | 29000 | 3100 | 2915 | 3000 | 85 | Ⓢ | 18 | 101 |
|    |                    |    |    | 10326 | F32T8/XL/SPX35/HL/ECO | 36 | 24000 | 29000 | 3100 | 2915 | 3500 | 85 | Ⓢ | 18 | 101 |
|    |                    |    |    | 10322 | F32T8/XL/SPX41/HL/ECO | 36 | 24000 | 29000 | 3100 | 2915 | 4100 | 82 | Ⓢ | 18 | 101 |
|    |                    |    |    | 42556 | F32T8/XL/SPX50/HL/ECO | 36 | 24000 | 29000 | 3000 | 2820 | 5000 | 80 | Ⓢ | 18 | 101 |

### F25T12 ECOLUX® FOR T8 BALLASTS

|     |                    |    |    |       |                 |    |       |       |      |      |      |    |   |    |     |
|-----|--------------------|----|----|-------|-----------------|----|-------|-------|------|------|------|----|---|----|-----|
| T12 | Medium BiPin (G13) | 25 | 48 | 80066 | F25T12/SP30/ECO | 30 | 15000 | 20000 | 2300 | 2140 | 3000 | 70 | Ⓢ | 18 | 101 |
|     |                    |    |    | 80067 | F25T12/SP35/ECO | 30 | 15000 | 20000 | 2300 | 2140 | 3500 | 70 | Ⓢ | 18 | 101 |
|     |                    |    |    | 80076 | F25T12/SP41/ECO | 30 | 15000 | 20000 | 2300 | 2140 | 4100 | 70 | Ⓢ | 18 | 101 |

## 8' T8 LAMPS

### 8' T8

|    |                  |    |    |       |             |    |       |       |      |      |      |    |   |  |     |
|----|------------------|----|----|-------|-------------|----|-------|-------|------|------|------|----|---|--|-----|
| T8 | Single Pin (Fa8) | 59 | 96 | 23407 | F96T8/SP30  | 24 | 15000 | 20000 | 5800 | 5500 | 3000 | 78 | Ⓢ |  | 101 |
|    |                  |    |    | 23411 | F96T8/SP35  | 24 | 15000 | 20000 | 5800 | 5500 | 3500 | 78 | Ⓢ |  | 101 |
|    |                  |    |    | 23412 | F96T8/SP41  | 24 | 15000 | 20000 | 5800 | 5500 | 4100 | 78 | Ⓢ |  | 101 |
|    |                  |    |    | 23414 | F96T8/SPX30 | 24 | 15000 | 20000 | 5950 | 5650 | 3000 | 86 | Ⓢ |  | 101 |
|    |                  |    |    | 23415 | F96T8/SPX35 | 24 | 15000 | 20000 | 5950 | 5650 | 3500 | 86 | Ⓢ |  | 101 |
|    |                  |    |    | 23416 | F96T8/SPX41 | 24 | 15000 | 20000 | 5950 | 5650 | 4100 | 86 | Ⓢ |  | 101 |
|    |                  |    |    | 23575 | F96T8/SPX50 | 24 | 15000 | 20000 | 5950 | 5650 | 5000 | 86 | Ⓢ |  | 101 |

### 8' T8 XL EXTRA-LIFE

|    |                  |    |    |       |                |    |       |       |      |      |      |    |   |  |     |
|----|------------------|----|----|-------|----------------|----|-------|-------|------|------|------|----|---|--|-----|
| T8 | Single Pin (Fa8) | 59 | 96 | 41889 | F96T8/XL/SP30  | 24 | 24000 | 29000 | 5800 | 5500 | 3000 | 78 | Ⓢ |  | 101 |
|    |                  |    |    | 41890 | F96T8/XL/SP35  | 24 | 24000 | 29000 | 5800 | 5500 | 3500 | 78 | Ⓢ |  | 101 |
|    |                  |    |    | 41891 | F96T8/XL/SP41  | 24 | 24000 | 29000 | 5800 | 5500 | 4100 | 78 | Ⓢ |  | 101 |
|    |                  |    |    | 41892 | F96T8/XL/SPX30 | 24 | 24000 | 29000 | 5950 | 5650 | 3000 | 86 | Ⓢ |  | 101 |
|    |                  |    |    | 41893 | F96T8/XL/SPX35 | 24 | 24000 | 29000 | 5950 | 5650 | 3500 | 86 | Ⓢ |  | 101 |
|    |                  |    |    | 41894 | F96T8/XL/SPX41 | 24 | 24000 | 29000 | 5950 | 5650 | 4100 | 86 | Ⓢ |  | 101 |
|    |                  |    |    | 45497 | F96T8/XL/SPX50 | 24 | 24000 | 29000 | 5950 | 5650 | 5000 | 86 | Ⓢ |  | 101 |

### 8' T8 XL EXTRA-LIFE WATT-MISER® ENERGY SAVING LAMPS

|    |                  |    |    |       |                  |    |       |       |      |      |      |    |   |   |     |
|----|------------------|----|----|-------|------------------|----|-------|-------|------|------|------|----|---|---|-----|
| T8 | Single Pin (Fa8) | 57 | 96 | 48524 | F96T8/XL/SP30/WM | 24 | 24000 | 29000 | 5800 | 5450 | 3000 | 84 | Ⓢ | 1 | 101 |
|    |                  |    |    | 48525 | F96T8/XL/SP35/WM | 24 | 24000 | 29000 | 5800 | 5450 | 3500 | 83 | Ⓢ | 1 | 101 |
|    |                  |    |    | 48526 | F96T8/XL/SP41/WM | 24 | 24000 | 29000 | 5800 | 5450 | 4100 | 81 | Ⓢ | 1 | 101 |

### 8' T8 XL EXTRA-LIFE WATT-MISER® PLUS ENERGY SAVING LAMPS

|    |                  |    |    |       |                   |    |       |       |      |      |      |    |   |   |     |
|----|------------------|----|----|-------|-------------------|----|-------|-------|------|------|------|----|---|---|-----|
| T8 | Single Pin (Fa8) | 54 | 96 | 47072 | F96T8/XL/SP30/WMP | 24 | 24000 | 29000 | 5800 | 5450 | 3000 | 84 | Ⓢ | 1 | 101 |
|    |                  |    |    | 47076 | F96T8/XL/SP35/WMP | 24 | 24000 | 29000 | 5800 | 5450 | 3500 | 83 | Ⓢ | 1 | 101 |
|    |                  |    |    | 47103 | F96T8/XL/SP41/WMP | 24 | 24000 | 29000 | 5800 | 5450 | 4100 | 81 | Ⓢ | 1 | 101 |

| Bulb Base | Nominal<br>Length Order<br>Watts in. Code Description | Case<br>Qty. | Rated<br>Life | Lumens<br>Initial Mean | Color<br>Temp.<br>K CRI | Foot-<br>notes | Warning<br>and<br>Cautions | Additional Information |
|-----------|-------------------------------------------------------|--------------|---------------|------------------------|-------------------------|----------------|----------------------------|------------------------|
|           |                                                       |              |               |                        |                         |                |                            |                        |

## 8' T8 HIGH OUTPUT

### 8' T8 HIGH OUTPUT - RECESSED DOUBLE CONTACT

|    |      |    |    |       |                |    |       |  |      |      |      |    |   |  |       |
|----|------|----|----|-------|----------------|----|-------|--|------|------|------|----|---|--|-------|
| T8 | R17d | 86 | 96 | 12536 | F96T8/SP30/HO  | 24 | 18000 |  | 8000 | 7600 | 3000 | 78 | Ⓢ |  | 101   |
|    |      |    |    | 12537 | F96T8/SP35/HO  | 24 | 18000 |  | 8000 | 7600 | 3500 | 78 | Ⓢ |  | 101   |
|    |      |    |    | 12538 | F96T8/SP41/HO  | 24 | 18000 |  | 8000 | 7600 | 4100 | 78 | Ⓢ |  | 101   |
|    |      |    |    | 12533 | F96T8/SPX35/HO | 24 | 18000 |  | 8200 | 7800 | 3500 | 86 | Ⓢ |  | 101   |
|    |      |    |    | 12534 | F96T8/SPX41/HO | 24 | 18000 |  | 8200 | 7800 | 4100 | 86 | Ⓢ |  | 101   |
|    |      |    |    | 12535 | F96T8/SPX50/HO | 24 | 18000 |  | 8200 | 7800 | 5000 | 86 | Ⓢ |  | 101 1 |

## 8' T8 INSTANT START

|    |                  |    |    |       |          |    |      |  |      |      |      |    |  |  |     |
|----|------------------|----|----|-------|----------|----|------|--|------|------|------|----|--|--|-----|
| T8 | Single Pin (Fa8) | 50 | 96 | 10912 | F96T8/CW | 24 | 7500 |  | 4050 | 3730 | 4100 | 60 |  |  | 101 |
|----|------------------|----|----|-------|----------|----|------|--|------|------|------|----|--|--|-----|

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.

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All footnote references found at the end of this section. ⚡ Reduced Wattage Ⓢ High Color Rendering.

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| Bulb Base                  | Nominal Length Order | Watts in. | Code | Description | Case Qty.       | Rated Life | Lumens Initial | Temp. Mean | Color K | CRI  | Footnotes | Warning and Cautions | Additional Information               |
|----------------------------|----------------------|-----------|------|-------------|-----------------|------------|----------------|------------|---------|------|-----------|----------------------|--------------------------------------|
| <b>T8 MOD-U-LINE®</b>      |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| <b>T8 1 5/8" SPACING</b>   |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| T8                         | Medium BiPin (G13)   | 31        | 22.5 | 41776       | F31T8/SPX30/U   | 15         | 20000          | 2725       | 2500    | 3000 | 82        | ☞                    | 105                                  |
|                            |                      |           |      | 41777       | F31T8/SPX35/U   | 15         | 20000          | 2725       | 2500    | 3500 | 82        | ☞                    | 105                                  |
|                            |                      |           |      | 41778       | F31T8/SPX41/U   | 15         | 20000          | 2725       | 2500    | 4100 | 82        | ☞                    | 105                                  |
| <b>T8 6" SPACING</b>       |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| T8                         | Medium BiPin (G13)   | 32        | 22.5 | 10479       | F32T8/SP30/U/6  | 12         | 20000          | 2700       | 2565    | 3000 | 78        | ☞                    | 105                                  |
|                            |                      |           |      | 23585       | F32T8/SP35/U/6  | 12         | 20000          | 2700       | 2565    | 3500 | 78        | ☞                    | 105                                  |
|                            |                      |           |      | 10480       | F32T8/SP41/U/6  | 12         | 20000          | 2700       | 2565    | 4100 | 78        | ☞                    | 105                                  |
|                            |                      |           |      | 10483       | F32T8/SPX30/U/6 | 12         | 20000          | 2800       | 2630    | 3000 | 86        | ☞                    | 105                                  |
|                            |                      |           |      | 10485       | F32T8/SPX35/U/6 | 12         | 20000          | 2800       | 2630    | 3500 | 86        | ☞                    | 105                                  |
|                            |                      |           |      | 10488       | F32T8/SPX41/U/6 | 12         | 20000          | 2800       | 2630    | 4100 | 86        | ☞                    | 105                                  |
|                            |                      |           |      | 10489       | F32T8/SPX50/U/6 | 12         | 20000          | 2660       | 2510    | 5000 | 86        | ☞                    | 105                                  |
| <b>OTHER T8 LENGTHS</b>    |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| <b>18" T8 W/ STARCOAT®</b> |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| T8                         | Medium BiPin (G13)   | 15        | 18   | 49489       | FE15T8/XL/SPX65 | 24         | 24000          | 875        | 785     | 6500 | 85        | ☞                    | 101 Use with Electronic Ballast Only |
| <b>5' T8 W/ STARCOAT®</b>  |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| T8                         | Medium BiPin (G13)   | 40        | 60   | 15950       | F40T8/SP30      | 24         | 20000          | 3600       | 3420    | 3000 | 75        | ☞                    | 101                                  |
|                            |                      |           |      | 15951       | F40T8/SP35      | 24         | 20000          | 3600       | 3420    | 3500 | 75        | ☞                    | 101                                  |
|                            |                      |           |      | 15952       | F40T8/SP41      | 24         | 20000          | 3600       | 3420    | 4100 | 75        | ☞                    | 101                                  |
|                            |                      |           |      | 22660       | F40T8/SPX30     | 24         | 20000          | 3725       | 3350    | 3000 | 84        | ☞                    | 101                                  |
|                            |                      |           |      | 22661       | F40T8/SPX35     | 24         | 20000          | 3725       | 3350    | 3500 | 84        | ☞                    | 101                                  |
|                            |                      |           |      | 22662       | F40T8/SPX41     | 24         | 20000          | 3725       | 3350    | 4100 | 84        | ☞                    | 101                                  |
| <b>6' T8 INSTANT START</b> |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| T8                         | Single Pin (Fa8)     | 35        | 72   | 10829       | F72T8/CW        | 24         | 7500           | 3000       | 2730    | 4100 | 60        |                      | 101                                  |
|                            |                      |           |      | 10835       | F72T8/WW 6PK    | 6          | 7500           | 3100       | 2820    | 3000 | 52        |                      | 101 Warm White                       |
| <b>T8 POLYLUX®</b>         |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| <b>2' T8 POLYLUX®</b>      |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| T8                         | Medium Bipin (G13)   | 18        | 24   | 93311       | F18T8/835PLYXLR | 25         | 20000          | 1350       | 1280    | 3500 | 85        | ☞                    | 101                                  |
|                            |                      |           |      | 93317       | F18T8/841PLYXLR | 25         | 20000          | 1350       | 1280    | 4100 | 85        | ☞                    | 101                                  |
| <b>4' T8 POLYLUX®</b>      |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| T8                         | Medium Bipin (G13)   | 36        | 48   | 19991       | F36T8/835PLYXLR | 25         | 20000          | 3350       | 3180    | 3500 | 85        | ☞                    | 101                                  |
|                            |                      |           |      | 16856       | F36T8/841PLYXLR | 25         | 20000          | 3350       | 3180    | 4100 | 85        | ☞                    | 101                                  |
| <b>6' T8 POLYLUX®</b>      |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| T8                         | Medium Bipin (G13)   | 58        | 60   | 40120       | F58T8/835PLYXLR | 25         | 20000          | 5200       | 4940    | 3500 | 85        | ☞                    | 101                                  |
|                            |                      |           |      | 40081       | F58T8/841PLYXLR | 25         | 20000          | 5200       | 4940    | 4000 | 85        | ☞                    | 101                                  |
| <b>7' T8 POLYLUX®</b>      |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| T8                         | Medium Bipin (G13)   | 70        | 72   | 39451       | F70T8/835PLYXLR | 25         | 20000          | 6300       | 5985    | 3500 | 85        | ☞                    | 101                                  |
|                            |                      |           |      | 39452       | F70T8/840PLYXLR | 25         | 20000          | 6300       | 5985    | 4000 | 85        | ☞                    | 101                                  |
| <b>T8 PREHEAT</b>          |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| <b>12" T8</b>              |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| T8                         | Medium BiPin (G13)   | 13        | 12   | 10098       | F13T8/CW        | 24         | 7500           | 565        | 480     | 4100 | 60        |                      | 101                                  |
| <b>15" T8</b>              |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| T8                         | Medium BiPin (G13)   | 14        | 15   | 10104       | F14T8/CW        | 24         | 7500           | 685        | 580     | 4100 | 60        |                      | 101                                  |
| <b>18" T8</b>              |                      |           |      |             |                 |            |                |            |         |      |           |                      |                                      |
| T8                         | Medium BiPin (G13)   | 15        | 18   | 17911       | F15T8/SP35      | 24         | 7500           | 940        | 850     | 3500 | 75        | ☞                    | 101                                  |
|                            |                      |           |      | 19643       | F15T8/SP41      | 24         | 7500           | 940        | 850     | 4100 | 72        | ☞                    | 101                                  |
|                            |                      |           |      | 19644       | F15T8/SPX30     | 24         | 7500           | 1000       | 900     | 3000 | 82        | ☞                    | 101                                  |
|                            |                      |           |      | 19645       | F15T8/SPX35     | 24         | 7500           | 1000       | 900     | 3500 | 82        | ☞                    | 101                                  |
|                            |                      |           |      | 10142       | F15T8/CW        | 24         | 7500           | 825        | 725     | 4100 | 60        |                      | 101                                  |



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| Bulb Base                                       | Nominal Length Order | Watts in. | Description | Case Qty. | Rated Life               | Lumens Initial | Temp. Mean | Color K | CRI  | Foot-notes | Warning and Cautions | Additional Information |
|-------------------------------------------------|----------------------|-----------|-------------|-----------|--------------------------|----------------|------------|---------|------|------------|----------------------|------------------------|
| <b>T8 PREHEAT (CONTINUED)</b>                   |                      |           |             |           |                          |                |            |         |      |            |                      |                        |
| <b>18" T8 (CONTINUED)</b>                       |                      |           |             |           |                          |                |            |         |      |            |                      |                        |
| T8                                              | Medium BiPin (G13)   | 15        | 18          | 10143     | F15T8/CW 6PK             | 24             | 7500       | 825     | 725  | 4100       | 60                   | 101                    |
|                                                 |                      |           |             | 10134     | F15T8/D                  | 24             | 7500       | 700     | 615  | 6500       | 75                   | 101 Daylight           |
|                                                 |                      |           |             | 21326     | F15T8/KB 6PK             | 24             | 7500       | 940     | 850  | 3000       | 70                   | 101 Kitchen & Bath     |
|                                                 |                      |           |             | 13968     | F15T8/SUN 6PK            | 24             | 7500       | 620     | 525  | 5000       | 90                   | 101 Sunlight           |
|                                                 |                      |           |             | 10147     | F15T8/WW                 | 24             | 7500       | 845     | 745  | 3000       | 52                   | 101 Warm White         |
| <b>36" T8</b>                                   |                      |           |             |           |                          |                |            |         |      |            |                      |                        |
| T8                                              | Medium BiPin (G13)   | 30        | 36          | 16323     | F30T8/SPX30              | 24             | 7500       | 2300    | 2140 | 3000       | 82                   | 101                    |
|                                                 |                      |           |             | 10316     | F30T8/CW 6PK             | 24             | 7500       | 2175    | 1980 | 4100       | 60                   | 101                    |
|                                                 |                      |           |             | 10310     | F30T8/D                  | 24             | 7500       | 1850    | 1625 | 6500       | 75                   | 101 Daylight           |
|                                                 |                      |           |             | 22747     | F30T8/KB 6PK             | 24             | 7500       | 2125    | 1910 | 3000       | 70                   | 101 Kitchen & Bath     |
|                                                 |                      |           |             | 10318     | F30T8/WW                 | 24             | 7500       | 2150    | 1880 | 3000       | 52                   | 101 Warm White         |
| <b>T12 LAMPS</b>                                |                      |           |             |           |                          |                |            |         |      |            |                      |                        |
| <b>3' T12 ECOLUX® - RAPID START</b>             |                      |           |             |           |                          |                |            |         |      |            |                      |                        |
| <b>25W</b>                                      |                      |           |             |           |                          |                |            |         |      |            |                      |                        |
| T12                                             | Medium BiPin (G13)   | 25        | 36          | 80080     | F25T12/SP30/RS/WM/ECO    | 24             | 18000      | 2025    | 1780 | 3000       | 70                   | 101                    |
|                                                 |                      |           |             | 80081     | F25T12/SP35/RS/WM/ECO    | 24             | 18000      | 2025    | 1780 | 3500       | 73                   | 101                    |
|                                                 |                      |           |             | 80065     | F25T12/CW/RS/WM/ECO      | 24             | 18000      | 1925    | 1640 | 4100       | 60                   | 101                    |
|                                                 |                      |           |             | 80077     | F25T12/WW/RS/WM/ECO      | 24             | 18000      | 1975    | 1680 | 3000       | 52                   | 101 Warm White         |
| <b>30W</b>                                      |                      |           |             |           |                          |                |            |         |      |            |                      |                        |
| T12                                             | Medium BiPin (G13)   | 30        | 36          | 80087     | F30T12/SP35/RS/ECO       | 24             | 18000      | 2350    | 2120 | 3500       | 73                   | 101                    |
|                                                 |                      |           |             | 80088     | F30T12/SP41/RS/ECO       | 24             | 18000      | 2350    | 2120 | 4100       | 72                   | 101                    |
|                                                 |                      |           |             | 80089     | F30T12/SPX30/RS/ECO      | 24             | 18000      | 2375    | 2140 | 3000       | 82                   | 101                    |
|                                                 |                      |           |             | 80090     | F30T12/SPX35/RS/ECO      | 24             | 18000      | 2375    | 2140 | 3500       | 82                   | 101                    |
|                                                 |                      |           |             | 80083     | F30T12/C50/RS/ECO        | 24             | 18000      | 1650    | 1350 | 5000       | 90                   | 101 Chroma 50          |
|                                                 |                      |           |             | 80084     | F30T12/CW/RS/ECO         | 24             | 18000      | 2200    | 1910 | 4100       | 60                   | 101                    |
|                                                 |                      |           |             | 80085     | F30T12/CW/RS/ECO 6PK     | 24             | 18000      | 2200    | 1910 | 4100       | 60                   | 101                    |
|                                                 |                      |           |             | 80086     | F30T12/D/RS/ECO          | 24             | 18000      | 1900    | 1650 | 6500       | 75                   | 101 Daylight           |
|                                                 |                      |           |             | 80091     | F30T12/WW/RS/ECO         | 24             | 18000      | 2275    | 1980 | 3000       | 52                   | 101 Warm White         |
| <b>4' T12 - RAPID START</b>                     |                      |           |             |           |                          |                |            |         |      |            |                      |                        |
| <b>32W WATT-MISER® PLUS</b>                     |                      |           |             |           |                          |                |            |         |      |            |                      |                        |
| T12                                             | Medium BiPin (G13)   | 32        | 48          | 14225     | F40/SP35/RS/WMP 30PK     | 30             | 20000      | 2650    | 2400 | 3500       | 80                   | 101                    |
|                                                 |                      |           |             | 14224     | F40/SP41/RS/WMP 30PK     | 30             | 20000      | 2650    | 2400 | 3500       | 80                   | 101                    |
|                                                 |                      |           |             | 14221     | F40/CW/RS/WMP 30PK       | 30             | 20000      | 2500    | 2200 | 4100       | 60                   | 101                    |
| <b>34W WATT-MISER® ECOLUX® - TCLP COMPLIANT</b> |                      |           |             |           |                          |                |            |         |      |            |                      |                        |
| T12                                             | Medium BiPin (G13)   | 34        | 48          | 23163     | F34/SP30/RS/WM/ECO       | 30             | 20000      | 2750    | 2475 | 3000       | 70                   | 101                    |
|                                                 |                      |           |             | 25401     | F34/SP30/RS/WM/ECO/UPC   | 30             | 20000      | 2750    | 2475 | 3000       | 70                   | 101                    |
|                                                 |                      |           |             | 23165     | F34/SP35/RS/WM/ECO       | 30             | 20000      | 2750    | 2475 | 3500       | 73                   | 101                    |
|                                                 |                      |           |             | 23486     | F34/SP35/WM/ECO/C        | 10             | 20000      | 2750    | 2475 | 3500       | 73                   | 101                    |
|                                                 |                      |           |             | 21858     | F34/SP35/RS/WM/ECO/UPC6P | 24             | 20000      | 2750    | 2475 | 3500       | 73                   | 101                    |
|                                                 |                      |           |             | 23166     | F34/SP41/RS/WM/ECO       | 30             | 20000      | 2750    | 2475 | 4100       | 72                   | 101                    |
|                                                 |                      |           |             | 25397     | F34/SP41/RS/WM/ECO/UPC   | 30             | 20000      | 2750    | 2475 | 4100       | 72                   | 101                    |
|                                                 |                      |           |             | 41563     | F34/SP65/RS/WM/ECO       | 30             | 20000      | 2650    | 2430 | 6500       | 75                   | 101                    |
|                                                 |                      |           |             | 23157     | F34/SPX30/RS/WM/ECO      | 30             | 20000      | 2900    | 2610 | 3000       | 82                   | 101                    |
|                                                 |                      |           |             | 23158     | F34/SPX35/RS/WM/ECO      | 30             | 20000      | 2900    | 2610 | 3500       | 82                   | 101                    |
|                                                 |                      |           |             | 23159     | F34/SPX41/RS/WM/ECO      | 30             | 20000      | 2900    | 2610 | 4100       | 80                   | 101                    |
|                                                 |                      |           |             | 80095     | F34/SPX50/RS/WM/ECO      | 30             | 20000      | 2700    | 2430 | 5000       | 80                   | 101                    |
|                                                 |                      |           |             | 80092     | F34/C50/RS/WM/ECO        | 30             | 20000      | 2000    | 1720 | 5000       | 90                   | 101 Chroma 50          |
|                                                 |                      |           |             | 23010     | F34/CW/RS/WM/ECO         | 30             | 20000      | 2650    | 2280 | 4100       | 60                   | 101                    |

Ⓜ Means this lamp meets Federal Minimum Efficiency Standards.

See [www.gelighting.com](http://www.gelighting.com) e-catalog for the most up-to-date product information. To convert inches to millimeters, multiply by 25.4.  
All footnote references found at the end of this section. ⚡ Reduced Wattage ⚡ High Color Rendering.

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| Bulb Base                                                   | Nominal Length Order | Watts in. | Code | Description                   | Case Qty. | Rated Life | Lumens Initial | Temp. Mean | Color K | CRI | Foot- notes | Warning and Cautions | Additional Information            |
|-------------------------------------------------------------|----------------------|-----------|------|-------------------------------|-----------|------------|----------------|------------|---------|-----|-------------|----------------------|-----------------------------------|
| <b>T12 LAMPS (CONTINUED)</b>                                |                      |           |      |                               |           |            |                |            |         |     |             |                      |                                   |
| <b>34W WATT-MISER® ECOLUX® - TCLP COMPLIANT (CONTINUED)</b> |                      |           |      |                               |           |            |                |            |         |     |             |                      |                                   |
| T12                                                         | Medium BiPin (G13)   | 34        | 48   | 25391 F34/CW/RS/WM/ECO/UPC    | 30        | 20000      | 2650           | 2280       | 4100    | 60  | ⓔ           | 1                    | 101                               |
|                                                             |                      |           |      | 23485 F34/CW/RS/WM/ECO/C 10PK | 10        | 20000      | 2650           | 2280       | 4100    | 60  | ⓔ           | 1                    | 101                               |
|                                                             |                      |           |      | 80093 F34/DX/RS/WM/ECO        | 30        | 20000      | 1950           | 1620       | 6500    | 84  | ⓔ           | 1                    | 101 Daylight Deluxe               |
|                                                             |                      |           |      | 80094 F34/LW/RS/WM/ECO        | 30        | 20000      | 2825           | 2430       | 4200    | 49  | ⓔ           | 1                    | 101 Lite White                    |
|                                                             |                      |           |      | 45065 F34/WW/RS/WM/ECO        | 30        | 20000      | 2700           | 2320       | 3000    | 52  | ⓔ           | 1                    | 101 Warm White                    |
|                                                             |                      |           |      | 25398 F34/WW/RS/WM/ECO/UPC    | 30        | 20000      | 2700           | 2320       | 3000    | 52  | ⓔ           | 1                    | 101 Warm White                    |
| <b>40W ECOLUX® - TCLP COMPLIANT</b>                         |                      |           |      |                               |           |            |                |            |         |     |             |                      |                                   |
| T12                                                         | Medium BiPin (G13)   | 40        | 48   | 80099 F40/SP30/ECO            | 30        | 20000      | 3250           | 2950       | 3000    | 70  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 80186 F40/SP35/ECO            | 30        | 20000      | 3200           | 2910       | 3500    | 73  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 80187 F40/SP41/ECO            | 30        | 20000      | 3200           | 2910       | 4100    | 72  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 23382 F40/SP41/ECO/C          | 10        | 20000      | 3200           | 2910       | 4100    | 72  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 80188 F40/SP65/ECO            | 30        | 20000      | 3050           | 2775       | 6500    | 75  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 25400 F40/SP65/ECO/UPC        | 30        | 20000      | 3050           | 2775       | 6500    | 75  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 80189 F40/SPX30/ECO           | 30        | 20000      | 3400           | 3090       | 3000    | 82  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 80190 F40/SPX35/ECO           | 30        | 20000      | 3400           | 3090       | 3500    | 82  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 80191 F40/SPX41/ECO           | 30        | 20000      | 3350           | 3050       | 4100    | 80  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 80199 F40/SPX50/ECO           | 30        | 20000      | 3200           | 2860       | 5000    | 80  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 80096 F40/C50/ECO             | 30        | 20000      | 2250           | 1870       | 5000    | 90  |             |                      | 101 Chroma 50                     |
|                                                             |                      |           |      | 25399 F40/C50/ECO/UPC         | 30        | 20000      | 2250           | 1870       | 5000    | 90  |             |                      | 101 Chroma 50                     |
|                                                             |                      |           |      | 13795 F40/C75 30PK            | 30        | 20000      | 1950           | 1680       | 7500    | 92  |             |                      | 101 Chroma 75, non-TCLP compliant |
|                                                             |                      |           |      | 13969 F40/D/ULTRA/ECO 6PK     | 24        | 20000      | 3050           | 2775       | 6500    | 75  | ⓔ           |                      | 101 Daylight                      |
|                                                             |                      |           |      | 80097 F40/DX/ECO              | 30        | 20000      | 2250           | 1910       | 6500    | 84  | ⓔ           |                      | 101 Daylight Deluxe               |
|                                                             |                      |           |      | 40333 F40/KB/ECO 2PK          | 9         | 20000      | 3400           | 3090       | 3000    | 70  | ⓔ           |                      | 101 Kitchen & Bath                |
|                                                             |                      |           |      | 21323 F40/KB/ECO 6PK          | 24        | 20000      | 3400           | 3090       | 3000    | 70  | ⓔ           |                      | 101 Kitchen & Bath                |
|                                                             |                      |           |      | 80098 F40/N/ECO               | 30        | 20000      | 2100           | 1740       | 3700    | 90  |             |                      | 101 Natural                       |
|                                                             |                      |           |      | 12224 F40/SUN/ECO 6PK         | 24        | 20000      | 2250           | 1870       | 5000    | 90  |             |                      | 101 Sunlight                      |
|                                                             |                      |           |      | 14440 F40/RES/ECO/SLV         | 30        | 15000      | 3150           | 2860       | 4100    | 72  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 14433 F40/RES/ECO/SLV 6PK     | 24        | 15000      | 3150           | 2860       | 4100    | 72  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 14441 F40/RES/ECO TWN 9PK     | 9         | 15000      | 3150           | 2860       | 4100    | 72  | ⓔ           |                      | 101                               |
| <b>40W ECOLUX® XL EXTRA-LIFE</b>                            |                      |           |      |                               |           |            |                |            |         |     |             |                      |                                   |
| T12                                                         | Medium BiPin (G13)   | 40        | 48   | 80217 F40/XL/SP30/ECO         | 30        | 24000      | 3300           | 2970       | 3000    | 75  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 80224 F40/XL/SP35/ECO         | 30        | 24000      | 3300           | 2970       | 3500    | 75  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 80227 F40/XL/SP41/ECO         | 30        | 24000      | 3300           | 2970       | 4100    | 73  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 80230 F40/XL/SPX30/ECO        | 30        | 24000      | 3400           | 3060       | 3000    | 82  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 80248 F40/XL/SPX35/ECO        | 30        | 24000      | 3400           | 3060       | 3500    | 82  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 80249 F40/XL/SPX41/ECO        | 30        | 24000      | 3400           | 3060       | 4100    | 80  | ⓔ           |                      | 101                               |
|                                                             |                      |           |      | 80250 F40/XL/SPX50/ECO        | 30        | 24000      | 3350           | 3050       | 5000    | 80  | ⓔ           |                      | 101                               |
| <b>25W ECOLUX® UTILITY SHOPLIGHT</b>                        |                      |           |      |                               |           |            |                |            |         |     |             |                      |                                   |
| T12                                                         | Medium BiPin (G13)   | 25        | 48   | 14450 F48/25W/UTECO/SLV       | 30        | 12000      | 1860           | 1675       | 4100    | 60  |             | 10                   | 101                               |
|                                                             |                      |           |      | 14456 F48/25W/UTECO/TWN       | 9         | 12000      | 1860           | 1675       | 4100    | 60  |             | 10                   | 101                               |
|                                                             |                      |           |      | 14445 F48/25W/UTECO/UPC       | 30        | 12000      | 1860           | 1675       | 4100    | 60  |             | 10                   | 101                               |

ⓔ Means this lamp meets Federal Minimum Efficiency Standards.

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All footnote references found at the end of this section. ⚡ Reduced Wattage ⚡ High Color Rendering.



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| Bulb Base                                 | Nominal Length Order | Watts in. | Code  | Description         | Case Qty. | Rated Life | Lumens Initial | Temp. Mean | Color K CRI | Foot-notes | Warning and Cautions | Additional Information |
|-------------------------------------------|----------------------|-----------|-------|---------------------|-----------|------------|----------------|------------|-------------|------------|----------------------|------------------------|
| <b>T12 LAMPS (CONTINUED)</b>              |                      |           |       |                     |           |            |                |            |             |            |                      |                        |
| <b>T12 MOD-U-LINE®</b>                    |                      |           |       |                     |           |            |                |            |             |            |                      |                        |
| <b>T12 3 5/8" SPACING</b>                 |                      |           |       |                     |           |            |                |            |             |            |                      |                        |
| T12 Medium BiPin (G13)                    | 40                   | 22.5      | 15259 | F40/SP30/U/3        | 12        | 14000      | 2925           | 2660       | 3000 70     | Ⓔ          |                      | 105                    |
|                                           |                      |           | 14228 | F40/SP35/U/3        | 12        | 14000      | 2925           | 2660       | 3500 73     | Ⓔ          |                      | 105                    |
|                                           |                      |           | 15260 | F40/SP41/U/3        | 12        | 14000      | 2925           | 2660       | 4100 72     | Ⓔ          |                      | 105                    |
|                                           |                      |           | 14814 | F40/SPX30/U/3       | 12        | 14000      | 3000           | 2730       | 3000 82     | Ⓔ          |                      | 105                    |
|                                           |                      |           | 14813 | F40/SPX35/U/3       | 12        | 14000      | 3000           | 2730       | 3500 82     | Ⓔ          |                      | 105                    |
|                                           |                      |           | 14649 | F40/SCW/U/3         | 12        | 14000      | 2725           | 2400       | 4100 75     | Ⓔ          |                      | 105 Super Cool White   |
| <b>T12 6" SPACING</b>                     |                      |           |       |                     |           |            |                |            |             |            |                      |                        |
| T12 Medium BiPin (G13)                    | 40                   | 22.5      | 15263 | F40/SP30/U/6        | 12        | 14000      | 3050           | 2780       | 3000 70     | Ⓔ          |                      | 105                    |
|                                           |                      |           | 14227 | F40/SP35/U/6        | 12        | 14000      | 3050           | 2780       | 3500 73     | Ⓔ          |                      | 105                    |
|                                           |                      |           | 22050 | F40/SP35/U/6/UPC    | 12        | 14000      | 3050           | 2780       | 3500 73     | Ⓔ          |                      | 105                    |
|                                           |                      |           | 15265 | F40/SP41/U/6        | 12        | 14000      | 3050           | 2780       | 4100 72     | Ⓔ          |                      | 105                    |
|                                           |                      |           | 14816 | F40/SPX30/U/6       | 12        | 14000      | 3100           | 2820       | 3000 82     | Ⓔ          |                      | 105                    |
|                                           |                      |           | 14648 | F40/SCW/U/6         | 12        | 14000      | 2800           | 2460       | 4100 75     | Ⓔ          |                      | 105 Super Cool White   |
|                                           |                      |           | 25374 | F40/SCW/U/6/UPC 6PK | 6         | 14000      | 2800           | 2460       | 4100 75     | Ⓔ          |                      | 105 Super Cool White   |
|                                           |                      |           | 14815 | F40/SPX35/U/6       | 12        | 14000      | 3100           | 2820       | 3500 82     | Ⓔ          |                      | 105                    |
|                                           |                      |           | 14632 | F40/SWW/U/6         | 12        | 14000      | 2800           | 2460       | 3000 75     | Ⓔ          |                      | 105 Super Warm White   |
| <b>WATT-MISER® ENERGY SAVING LAMPS</b>    |                      |           |       |                     |           |            |                |            |             |            |                      |                        |
| <b>T12 3 5/8" SPACING WATT-MISER®</b>     |                      |           |       |                     |           |            |                |            |             |            |                      |                        |
| T12 Medium BiPin (G13)                    | 35                   | 22.5      | 12199 | F35/CW/U/3/WM       | 12        | 14000      | 2200           | 2050       | 4100 60     | Ⓔ          | 1                    | 105                    |
|                                           |                      |           | 12200 | F35/WW/U/3/WM       | 12        | 14000      | 2300           | 2100       | 3000 52     | Ⓔ          | 1                    | 105 Warm White         |
| <b>T12 6" SPACING WATT-MISER®</b>         |                      |           |       |                     |           |            |                |            |             |            |                      |                        |
| T12 Medium BiPin (G13)                    | 35                   | 22.5      | 12203 | F35/CW/U/6/WM       | 12        | 14000      | 2300           | 2100       | 4100 60     | Ⓔ          | 1                    | 105                    |
|                                           |                      |           | 14471 | F35/CW/U/6/WM/UPC   | 12        | 14000      | 2300           | 2100       | 4100 60     | Ⓔ          | 1                    | 105                    |
|                                           |                      |           | 23383 | F35/CW/U/6/WM/C     | 6         | 14000      | 2300           | 2100       | 4100 60     | Ⓔ          | 1                    | 105                    |
|                                           |                      |           | 12207 | F35/WW/U/6/WM       | 12        | 14000      | 2350           | 2150       | 3000 52     | Ⓔ          | 1                    | 105 Warm White         |
| <b>T12 6" SPACING WATT-MISER® ECOLUX®</b> |                      |           |       |                     |           |            |                |            |             |            |                      |                        |
| T12 Medium BiPin (G13)                    | 34                   | 22.5      | 15622 | F34/CW/U/6/WM/ECO   | 12        | 18000      | 2600           | 2235       | 4200 62     | Ⓔ          | 1                    | 105                    |
| <b>T12 INSTANT START</b>                  |                      |           |       |                     |           |            |                |            |             |            |                      |                        |
| T12 Single Pin (Fa8)                      | 20                   | 24        | 10691 | F24T12/CW           | 24        | 7500       | 1050           | 900        | 4100 60     |            |                      | 101                    |
|                                           | 30                   | 36        | 10709 | F36T12/CW           | 24        | 7500       | 2000           | 1800       | 4100 60     |            |                      | 101                    |
|                                           | 35                   | 42        | 10735 | F42T12/CW           | 24        | 7500       | 2400           | 2210       | 4100 60     |            |                      | 101                    |
|                                           | 40                   | 48        | 15262 | F48T12/SP35         | 24        | 9000       | 3000           | 2820       | 3500 73     |            |                      | 101                    |
|                                           |                      |           | 15088 | F48T12/SPX30        | 24        | 9000       | 3050           | 2870       | 3000 82     |            |                      | 101                    |
|                                           |                      |           | 15116 | F48T12/SPX35        | 24        | 9000       | 3050           | 2870       | 3500 82     |            |                      | 101                    |
|                                           |                      |           | 10748 | F48T12/CW           | 24        | 9000       | 2875           | 2650       | 4100 60     |            |                      | 101                    |
|                                           |                      |           | 20461 | F48T12/CW/UPC 6PK   | 24        | 9000       | 2875           | 2650       | 4100 60     |            |                      | 101                    |
| <b>WATT-MISER® ENERGY SAVING LAMPS</b>    |                      |           |       |                     |           |            |                |            |             |            |                      |                        |
| T12 Single Pin (Fa8)                      | 30                   | 48        | 14319 | F48T12/SP35/WM      | 24        | 9000       | 2575           | 2420       | 3500 73     |            | 1                    | 101                    |
|                                           |                      |           | 13048 | F48T12/SP41/WM      | 24        | 9000       | 2575           | 2420       | 4100 72     |            | 1                    | 101                    |
|                                           |                      |           | 44967 | F48T12/CW/WM        | 24        | 9000       | 2475           | 2400       | 2210 60     |            | 1                    | 101                    |
| <b>8' T12 INSTANT START</b>               |                      |           |       |                     |           |            |                |            |             |            |                      |                        |
| <b>8' INSTANT START STANDARD</b>          |                      |           |       |                     |           |            |                |            |             |            |                      |                        |
| T12 Single Pin (Fa8)                      | 75                   | 96        | 15357 | F96T12/SP30 15PK    | 15        | 12000      | 6500           | 6110       | 3000 70     | Ⓔ          |                      | 101                    |
|                                           |                      |           | 14067 | F96T12/SP35 15PK    | 15        | 12000      | 6500           | 6110       | 3500 73     | Ⓔ          |                      | 101                    |
|                                           |                      |           | 15358 | F96T12/SP41 15PK    | 15        | 12000      | 6500           | 6110       | 4100 72     | Ⓔ          |                      | 101                    |
|                                           |                      |           | 12127 | F96T12/SP65         | 15        | 12000      | 6125           | 5760       | 6500 75     | Ⓔ          |                      | 101                    |
|                                           |                      |           | 15110 | F96T12/SPX30 15PK   | 15        | 12000      | 6800           | 6390       | 3000 82     | Ⓔ          |                      | 101                    |

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| Bulb Base                                         | Nominal Length   | Order | Watts in. | Code  | Description           | Case Qty. | Rated Life | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Footnotes | Warning and Cautions | Additional Information |
|---------------------------------------------------|------------------|-------|-----------|-------|-----------------------|-----------|------------|----------------|-------------|---------------|-----|-----------|----------------------|------------------------|
| <b>T12 LAMPS (CONTINUED)</b>                      |                  |       |           |       |                       |           |            |                |             |               |     |           |                      |                        |
| <b>8' T12 INSTANT START (CONTINUED)</b>           |                  |       |           |       |                       |           |            |                |             |               |     |           |                      |                        |
| <b>8' INSTANT START STANDARD (CONTINUED)</b>      |                  |       |           |       |                       |           |            |                |             |               |     |           |                      |                        |
| T12                                               | Single Pin (Fa8) | 75    | 96        | 15101 | F96T12/SPX35 15PK     | 15        | 12000      | 6800           | 6390        | 3500          | 82  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 15335 | F96T12/SPX41 15PK     | 15        | 12000      | 6800           | 6390        | 4100          | 80  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 23466 | F96T12/SPX50 15PK     | 15        | 12000      | 6250           | 5880        | 5000          | 80  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 14652 | F96T12/DX             | 15        | 12000      | 4500           | 4050        | 6500          | 84  | Ⓢ         | 101                  | Daylight Deluxe        |
|                                                   |                  |       |           | 13725 | F96T12/N 15PK         | 15        | 12000      | 4250           | 3740        | 3700          | 90  | Ⓢ         | 101                  | Natural                |
|                                                   |                  |       |           | 13752 | F96T12/C50            | 15        | 12000      | 4600           | 4050        | 5000          | 90  | Ⓢ         | 101                  | Chroma 50              |
|                                                   |                  |       |           | 25387 | F96T12/C50/UPC        | 15        | 12000      | 4600           | 4050        | 5000          | 90  | Ⓢ         | 101                  | Chroma 50              |
| <b>8' INSTANT START XL EXTRA-LIFE</b>             |                  |       |           |       |                       |           |            |                |             |               |     |           |                      |                        |
| T12                                               | Single Pin (Fa8) | 75    | 96        | 23576 | F96T12/XL/SP35        | 15        | 15000      | 6700           | 6180        | 3500          | 75  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 11661 | F96T12/XL/SP41        | 15        | 15000      | 6700           | 6180        | 4100          | 73  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 11664 | F96T12/XL/SPX41       | 15        | 15000      | 6900           | 6370        | 4100          | 80  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 11665 | F96T12/XL/SPX50       | 15        | 15000      | 6425           | 5930        | 5000          | 80  | Ⓢ         | 101                  |                        |
| <b>WATT-MISER® ENERGY SAVING LAMPS</b>            |                  |       |           |       |                       |           |            |                |             |               |     |           |                      |                        |
| <b>8' INSTANT START WATT-MISER®</b>               |                  |       |           |       |                       |           |            |                |             |               |     |           |                      |                        |
| T12                                               | Single Pin (Fa8) | 60    | 96        | 14201 | F96T12/SP30/WM 15PK   | 15        | 12000      | 5700           | 5360        | 3000          | 70  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 13849 | F96T12/SP35/WM 15PK   | 15        | 12000      | 5700           | 5360        | 3500          | 73  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 21856 | F96T12/SP35/WM/UPC    | 15        | 12000      | 5700           | 5360        | 3500          | 73  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 11217 | F96T12/SP35/WM/C 10PK | 10        | 12000      | 5700           | 5360        | 3500          | 73  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 13758 | F96T12/SP41/WM 15PK   | 15        | 12000      | 5700           | 5360        | 4100          | 72  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 25395 | F96T12/SP41/WM/UPC    | 15        | 12000      | 5700           | 5360        | 4100          | 72  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 25171 | F96T12/UTCW/EE/C      | 10        | 12000      | 5500           | 5060        | 4100          | 60  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 12128 | F96T12/SP65/WM        | 15        | 12000      | 5100           | 4800        | 6500          | 75  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 14629 | F96T12/SPX30/WM 15PK  | 15        | 12000      | 6000           | 5640        | 3000          | 82  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 14630 | F96T12/SPX35/WM 15PK  | 15        | 12000      | 6000           | 5640        | 3500          | 82  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 13756 | F96T12/C50/WM 15PK    | 15        | 12000      | 4000           | 3520        | 5000          | 90  | Ⓢ         | 101                  | Chroma 50              |
|                                                   |                  |       |           | 13729 | F96T12/CW/WM15PK      | 15        | 12000      | 5500           | 5060        | 4100          | 60  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 21713 | F96T12/CW/WM/UPC 10PK | 10        | 12000      | 5500           | 5060        | 4100          | 60  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 13742 | F96T12/LW/WM 15PK     | 15        | 12000      | 5800           | 5340        | 4200          | 49  | Ⓢ         | 101                  | Lite White             |
|                                                   |                  |       |           | 13736 | F96T12/WW/WM 15PK     | 15        | 12000      | 5700           | 5240        | 3000          | 52  | Ⓢ         | 101                  | Warm White             |
| <b>8' INSTANT START WATT-MISER® XL EXTRA-LIFE</b> |                  |       |           |       |                       |           |            |                |             |               |     |           |                      |                        |
| T12                                               | Single Pin (Fa8) | 60    | 96        | 12406 | F96T12/XL/SP35/WM     | 15        | 15000      | 5900           | 5480        | 3500          | 75  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 12408 | F96T12/XL/SP41/WM     | 15        | 15000      | 5900           | 5480        | 4100          | 73  | Ⓢ         | 101                  |                        |
| <b>8' INSTANT START WATT-MISER® ECOLUX®</b>       |                  |       |           |       |                       |           |            |                |             |               |     |           |                      |                        |
| T12                                               | Single Pin (Fa8) | 60    | 96        | 27233 | F96T12/SP35/WM/ECO    | 15        | 12000      | 5700           | 5360        | 3500          | 73  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 27235 | F96T12/SP41/WM/ECO    | 15        | 12000      | 5700           | 5360        | 4100          | 72  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 40373 | F96T12/SP65/WM/ECO    | 15        | 12000      | 5100           | 4800        | 6500          | 75  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 27237 | F96T12/SPX30/WM/ECO   | 15        | 12000      | 6000           | 5640        | 3000          | 82  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 27238 | F96T12/SPX35/WM/ECO   | 15        | 12000      | 6000           | 5640        | 3500          | 82  | Ⓢ         | 101                  |                        |
|                                                   |                  |       |           | 27186 | F96T12/CW/WM/ECO      | 15        | 12000      | 5500           | 5060        | 4100          | 60  | Ⓢ         | 101                  |                        |
| <b>T12 OTHER LENGTHS</b>                          |                  |       |           |       |                       |           |            |                |             |               |     |           |                      |                        |
| <b>5' T12 INSTANT START</b>                       |                  |       |           |       |                       |           |            |                |             |               |     |           |                      |                        |
| T12                                               | Single Pin (Fa8) | 50    | 60        | 23073 | F60T12/CW 15PK        | 15        | 12000      | 3600           | 3310        | 4100          | 60  |           | 101                  |                        |
|                                                   |                  |       |           | 23076 | F60T12/D 15PK         | 15        | 12000      | 3000           | 2760        | 6500          | 75  | Ⓢ         | 101                  | Daylight               |
| <b>64" T12 INSTANT START</b>                      |                  |       |           |       |                       |           |            |                |             |               |     |           |                      |                        |
| T12                                               | Single Pin (Fa8) | 50    | 64        | 23082 | F64T12/CW15PK         | 15        | 10000      | 3850           | 3540        | 4100          | 60  |           | 101                  |                        |
|                                                   |                  |       |           | 23085 | F64T12/D 15PK         | 15        | 10000      | 3300           | 3040        | 6500          | 75  | Ⓢ         | 101                  | Daylight               |

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.

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| Bulb Base                                                          | Nominal Length Order | Watts | in. | Code  | Description        | Case Qty. | Rated Life | Lumens Initial | Temp. Mean | Color Temp. K | CRI | Foot-notes | Warning and Cautions | Additional Information |
|--------------------------------------------------------------------|----------------------|-------|-----|-------|--------------------|-----------|------------|----------------|------------|---------------|-----|------------|----------------------|------------------------|
| <b>T12 LAMPS (CONTINUED)</b>                                       |                      |       |     |       |                    |           |            |                |            |               |     |            |                      |                        |
| <b>T12 OTHER LENGTHS (CONTINUED)</b>                               |                      |       |     |       |                    |           |            |                |            |               |     |            |                      |                        |
| <b>6' T12 INSTANT START®</b>                                       |                      |       |     |       |                    |           |            |                |            |               |     |            |                      |                        |
| T12                                                                | Single Pin (Fa8)     | 55    | 72  | 15286 | F72T12/SP35 15PK   | 15        | 12000      | 4700           | 4420       | 3500          | 73  |            | 101                  |                        |
|                                                                    |                      |       |     | 15097 | F72T12/SP41        | 15        | 12000      | 4700           | 4420       | 4100          | 72  |            | 101                  |                        |
|                                                                    |                      |       |     | 15117 | F72T12SPX30 15PK   | 15        | 12000      | 4800           | 4510       | 3000          | 82  |            | 101                  |                        |
|                                                                    |                      |       |     | 15098 | F72T12/SPX35 15PK  | 15        | 12000      | 4800           | 4510       | 3500          | 82  |            | 101                  |                        |
|                                                                    |                      |       |     | 13743 | F72T12/CW 15PK     | 15        | 12000      | 4500           | 4140       | 4100          | 60  |            | 101                  |                        |
|                                                                    |                      |       |     | 23385 | F72T12/CW/C        | 10        | 12000      | 4500           | 4140       | 4100          | 60  |            | 101                  |                        |
|                                                                    |                      |       |     | 12525 | F72T12/CW/UPC 10PK | 10        | 12000      | 4500           | 4140       | 4100          | 60  |            | 101                  |                        |
|                                                                    |                      |       |     | 13748 | F72T12/D 15PK      | 15        | 12000      | 3800           | 3500       | 6500          | 75  |            | 101                  | Daylight               |
| <b>7' T12 INSTANT START®</b>                                       |                      |       |     |       |                    |           |            |                |            |               |     |            |                      |                        |
| T12                                                                | Single Pin (Fa8)     | 65    | 84  | 13764 | F84T12/CW 15PK     | 15        | 12000      | 5300           | 4880       | 4100          | 60  |            | 101                  |                        |
| <b>T12 HIGH OUTPUT (800mA) RAPID START RECESSED DOUBLE CONTACT</b> |                      |       |     |       |                    |           |            |                |            |               |     |            |                      |                        |
| <b>18" HIGH OUTPUT</b>                                             |                      |       |     |       |                    |           |            |                |            |               |     |            |                      |                        |
| T12                                                                | R17d                 | 30    | 18  | 10204 | F18T12/CW/HO       | 24        | 9000       | 1000           | 750        | 4100          | 60  |            | 101                  |                        |
| <b>2' HIGH OUTPUT</b>                                              |                      |       |     |       |                    |           |            |                |            |               |     |            |                      |                        |
| T12                                                                | R17d                 | 35    | 24  | 10261 | F24T12/CW/HO       | 24        | 9000       | 1620           | 1345       | 4100          | 60  |            | 101                  |                        |
|                                                                    |                      |       |     | 10275 | F24T12/D/HO        | 24        | 9000       | 1400           | 1160       | 6500          | 74  |            | 101                  | Daylight               |
| <b>30" HIGH OUTPUT</b>                                             |                      |       |     |       |                    |           |            |                |            |               |     |            |                      |                        |
| T12                                                                | R17d                 | 40    | 30  | 33707 | F30T12/CW/HO       | 24        | 9000       | 2250           | 1950       | 4100          | 60  |            | 101                  |                        |
| <b>3' HIGH OUTPUT</b>                                              |                      |       |     |       |                    |           |            |                |            |               |     |            |                      |                        |
| T12                                                                | R17d                 | 45    | 36  | 10374 | F36T12/CW/HO       | 24        | 9000       | 2800           | 2440       | 4100          | 60  |            | 101                  |                        |
|                                                                    |                      |       |     | 10380 | F36T12/D/HO        | 24        | 9000       | 2350           | 2040       | 6500          | 75  |            | 101                  |                        |
|                                                                    |                      |       |     | 10388 | F36T12/SGN/HO      | 24        | 9000       | 2150           | 1830       | 5400          | 82  |            | 101                  |                        |
| <b>42" HIGH OUTPUT</b>                                             |                      |       |     |       |                    |           |            |                |            |               |     |            |                      |                        |
| T12                                                                | R17d                 | 55    | 42  | 10559 | F42T12/CW/HO       | 24        | 9000       | 3200           | 2790       | 4100          | 60  |            | 101                  |                        |
|                                                                    |                      |       |     | 10560 | F42T12/D/HO        | 24        | 9000       | 2900           | 2520       | 6500          | 74  |            | 101                  | Daylight               |
|                                                                    |                      |       |     | 10562 | F42T12/SGN/HO      | 24        | 9000       | 2600           | 2215       | 5400          | 82  |            | 101                  | Sign White             |
| <b>4' HIGH OUTPUT</b>                                              |                      |       |     |       |                    |           |            |                |            |               |     |            |                      |                        |
| T12                                                                | R17d                 | 60    | 48  | 15359 | F48T12/SP30/HO     | 24        | 12000      | 4250           | 3830       | 3000          | 70  |            | 101                  |                        |
|                                                                    |                      |       |     | 15360 | F48T12/SP35/HO     | 24        | 12000      | 4250           | 3830       | 3500          | 73  |            | 101                  |                        |
|                                                                    |                      |       |     | 15361 | F48T12/SP41/HO     | 24        | 12000      | 4250           | 3830       | 4100          | 72  |            | 101                  |                        |
|                                                                    |                      |       |     | 15115 | F48T12/SPX35/HO    | 24        | 12000      | 4350           | 3920       | 3500          | 82  |            | 101                  |                        |
|                                                                    |                      |       |     | 10773 | F48T12/CW/HO       | 24        | 12000      | 3825           | 3320       | 4100          | 60  |            | 101                  |                        |
|                                                                    |                      |       |     | 27313 | F48T12/CW/HO/UPC   | 24        | 12000      | 3825           | 3320       | 4100          | 60  |            | 101                  |                        |
|                                                                    |                      |       |     | 10778 | F48T12/D/HO        | 24        | 12000      | 3400           | 2960       | 6500          | 75  |            | 101                  | Daylight               |
|                                                                    |                      |       |     | 10573 | F48T12/SGN/HO      | 24        | 12000      | 3100           | 2640       | 5400          | 80  |            | 101                  | Sign White             |
| <b>4' HIGH OUTPUT WATT-MISER® ENERGY SAVING LAMPS</b>              |                      |       |     |       |                    |           |            |                |            |               |     |            |                      |                        |
| T12                                                                | R17d                 | 55    | 48  | 15342 | F48T12/SP35/HO/WM  | 24        | 12000      | 3850           | 3465       | 3500          | 73  |            | 101                  |                        |
|                                                                    |                      |       |     | 11179 | F48T12/LW/HO/WM    | 24        | 12000      | 3900           | 3390       | 4200          | 49  |            | 101                  | Lite White             |
| <b>5' HIGH OUTPUT</b>                                              |                      |       |     |       |                    |           |            |                |            |               |     |            |                      |                        |
| T12                                                                | R17d                 | 75    | 60  | 23075 | F60T12/CW/HO 15PK  | 15        | 12000      | 5150           | 4480       | 4100          | 60  |            | 101                  |                        |
|                                                                    |                      |       |     | 23077 | F60T12/D/HO 15PK   | 15        | 12000      | 4400           | 3830       | 6500          | 75  |            | 101                  | Daylight               |
|                                                                    |                      |       |     | 23081 | F60T12/SGN/HO 15PK | 15        | 12000      | 4000           | 3400       | 5400          | 82  |            | 101                  | Sign White             |
| <b>64" HIGH OUTPUT</b>                                             |                      |       |     |       |                    |           |            |                |            |               |     |            |                      |                        |
| T12                                                                | R17d                 | 80    | 64  | 23083 | F64T12/CW/HO 15PK  | 15        | 12000      | 5600           | 4870       | 4100          | 60  |            | 101                  |                        |
|                                                                    |                      |       |     | 23087 | F64T12/D/HO 15PK   | 15        | 12000      | 4750           | 4130       | 6500          | 75  |            | 101                  | Daylight               |
|                                                                    |                      |       |     | 23089 | F64T12/SGN/HO15PK  | 15        | 12000      | 4300           | 3660       | 5400          | 82  |            | 101                  | Sign White             |

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| Bulb Base                                                                      | Nominal<br>Length Order<br>Watts in. Code | Description                  | Case<br>Qty. | Rated<br>Life | Lumens<br>Initial Mean | Color<br>Temp.<br>K CRI | Foot-<br>notes | Warning<br>and<br>Cautions | Additional Information |
|--------------------------------------------------------------------------------|-------------------------------------------|------------------------------|--------------|---------------|------------------------|-------------------------|----------------|----------------------------|------------------------|
| <b>T12 LAMPS (CONTINUED)</b>                                                   |                                           |                              |              |               |                        |                         |                |                            |                        |
| <b>T12 HIGH OUTPUT (800mA) RAPID START RECESSED DOUBLE CONTACT (CONTINUED)</b> |                                           |                              |              |               |                        |                         |                |                            |                        |
| <b>6' HIGH OUTPUT</b>                                                          |                                           |                              |              |               |                        |                         |                |                            |                        |
| T12 R17d                                                                       | 85 72                                     | 15343 F72T12/SP30/HO 15PK    | 15           | 12000         | 6650 5990 3000 70      | Ⓔ                       |                | 101                        |                        |
|                                                                                |                                           | 15347 F72T12/SP35/HO 15PK    | 15           | 12000         | 6650 5990 3500 73      | Ⓔ                       |                | 101                        |                        |
|                                                                                |                                           | 15348 F72T12/SP41/HO 15PK    | 15           | 12000         | 6650 5990 4100 72      | Ⓔ                       |                | 101                        |                        |
|                                                                                |                                           | 15137 F72T12/SPX30/HO 15PK   | 15           | 12000         | 6800 6120 3000 82      | Ⓔ                       |                | 101                        |                        |
|                                                                                |                                           | 15351 F72T12/SPX35/HO 15PK   | 15           | 12000         | 6800 6120 3500 82      | Ⓔ                       |                | 101                        |                        |
|                                                                                |                                           | 13697 F72T12/CW/HO 15PK      | 15           | 12000         | 6350 5520 4100 60      |                         |                | 101                        |                        |
|                                                                                |                                           | 13699 F72T12/D/HO 15PK       | 15           | 12000         | 5350 4650 6500 75      | Ⓔ                       |                | 101                        | Daylight               |
|                                                                                |                                           | 12527 F72T12/N/HO            | 10           | 12000         | 4300 3610 3700 90      | Ⓔ                       |                | 101                        | Natural                |
|                                                                                |                                           | 13701 F72T12/SGN/HO 15PK     | 15           | 12000         | 4900 4170 5400 82      | Ⓔ                       |                | 101                        | Sign White             |
|                                                                                |                                           | 13702 F72T12/WW/HO 15PK      | 15           | 12000         | 6550 5700 3000 52      |                         |                | 101                        | Warm White             |
| <b>7' HIGH OUTPUT</b>                                                          |                                           |                              |              |               |                        |                         |                |                            |                        |
| T12 R17d                                                                       | 100 84                                    | 13766 F84T12/CW/HO 15PK      | 15           | 12000         | 7700 6700 4100 60      |                         |                | 101                        |                        |
|                                                                                |                                           | 13767 F84T12/D/HO 15PK       | 15           | 12000         | 6500 5660 6500 75      | Ⓔ                       |                | 101                        | Daylight               |
|                                                                                |                                           | 13768 F84T12/SGN/HO 15PK     | 15           | 12000         | 6000 5100 5400 82      | Ⓔ                       |                | 101                        | Sign White             |
| <b>8' HIGH OUTPUT</b>                                                          |                                           |                              |              |               |                        |                         |                |                            |                        |
| T12 R17d                                                                       | 110 96                                    | 15362 F96T12/SP30/HO 15PK    | 15           | 12000         | 9200 8280 3000 70      | Ⓔ                       |                | 101                        |                        |
|                                                                                |                                           | 15363 F96T12/SP35/HO 15PK    | 15           | 12000         | 9200 8280 3500 73      | Ⓔ                       |                | 101                        |                        |
|                                                                                |                                           | 15364 F96T12/SP41/HO 15PK    | 15           | 12000         | 9200 8280 4100 72      | Ⓔ                       |                | 101                        |                        |
|                                                                                |                                           | 12130 F96T12/SP65/HO         | 15           | 12000         | 8900 8010 6500 75      | Ⓔ                       |                | 101                        |                        |
|                                                                                |                                           | 15119 F96T12/SPX30/HO 15PK   | 15           | 12000         | 9350 8420 3000 82      | Ⓔ                       |                | 101                        |                        |
|                                                                                |                                           | 15352 F96T12/SPX35/HO 15PK   | 15           | 12000         | 9350 8420 3500 82      | Ⓔ                       |                | 101                        |                        |
|                                                                                |                                           | 23070 F96T12/SPX41/HO 15PK   | 15           | 12000         | 9350 8420 4100 80      | Ⓔ                       |                | 101                        |                        |
|                                                                                |                                           | 13707 F96T12/C50/HO 15PK     | 15           | 12000         | 6750 5670 5000 90      | Ⓔ                       |                | 101                        | Chroma 50              |
|                                                                                |                                           | 14653 F96T12/DX/HO           | 15           | 12000         | 6600 5610 6500 84      | Ⓔ                       |                | 101                        | Daylight Deluxe        |
|                                                                                |                                           | 13709 F96T12/N/HO 15PK       | 15           | 12000         | 6200 5210 3700 90      | Ⓔ                       |                | 101                        | Natural                |
| <b>8' HIGH OUTPUT WATT-MISER® ENERGY SAVING LAMPS</b>                          |                                           |                              |              |               |                        |                         |                |                            |                        |
| T12 R17d                                                                       | 95 96                                     | 14069 F96T12/SP35/HO/WM      | 15           | 12000         | 8350 7520 3500 73      | Ⓔ                       | ⚡              | 1                          | 101                    |
|                                                                                |                                           | 13721 F96T12/SP41/HO/WM 15PK | 15           | 12000         | 8350 7520 4100 72      | Ⓔ                       | ⚡              | 1                          | 101                    |
|                                                                                |                                           | 12131 F96T12/SP65/HO/WM      | 15           | 12000         | 7700 6930 6500 75      | Ⓔ                       | ⚡              | 1                          | 101                    |
|                                                                                |                                           | 15120 F96T12/SPX30/HO/WM     | 15           | 12000         | 8500 7650 3000 82      | Ⓔ                       | ⚡              | 1                          | 101                    |
|                                                                                |                                           | 15122 F96T12/SPX35/HO/WM     | 15           | 12000         | 8500 7650 3500 82      | Ⓔ                       | ⚡              | 1                          | 101                    |
|                                                                                |                                           | 23069 F96T12/SPX41/HO/WM     | 15           | 12000         | 8500 7650 4100 80      | Ⓔ                       | ⚡              | 1                          | 101                    |
|                                                                                |                                           | 13716 F96T12/CW/HO/WM 15PK   | 15           | 12000         | 8000 6960 4100 60      | Ⓔ                       |                | 1                          | 101                    |
|                                                                                |                                           | 21714 F96T12/CW/HO/WM/UPC    | 15           | 12000         | 8000 6960 4100 60      | Ⓔ                       |                | 1                          | 101                    |
|                                                                                |                                           | 13720 F96T12/LW/HO/WM        | 15           | 12000         | 8500 7900 4200 49      | Ⓔ                       | ⚡              | 1                          | 101 Lite White         |
|                                                                                |                                           | 13719 F96T12/WW/HO/WM 15PK   | 15           | 12000         | 8200 7130 3000 52      | Ⓔ                       | ⚡              | 1                          | 101 Warm White         |
| <b>8' HIGH OUTPUT WATT-MISER ECOLUX®</b>                                       |                                           |                              |              |               |                        |                         |                |                            |                        |
| T12 R17d                                                                       | 95 96                                     | 16495 F96T12/CW/HO/WM/ECO    | 15           | 12000         | 8000 6480 4100 60      | Ⓔ                       | ⚡              | 1                          | 101                    |
| <b>T12 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT</b>                   |                                           |                              |              |               |                        |                         |                |                            |                        |
| T12 R17d                                                                       | 110 48                                    | 10751 F48T12/CW/1500         | 24           | 10000         | 6200 4030 4100 60      |                         | 4              |                            | 101                    |
|                                                                                | 165 72                                    | 13760 F72T12/CW/1500 15PK    | 15           | 10000         | 9000 6300 4100 60      |                         | 4              |                            | 101                    |
|                                                                                | 185 96                                    | 13789 F96T12/CW/1500/WM 15PK | 15           | 9000          | 12500 9380 4100 60     |                         | ⚡              | 4                          | 101                    |
|                                                                                |                                           | 13790 F96T12/LW/1500/WM 15PK | 15           | 9000          | 13250 9940 4200 49     |                         | ⚡              | 4                          | 101 Lite White         |
|                                                                                | 215 96                                    | 13781 F96T12/CW/1500 15PK    | 15           | 10000         | 13500 10125 4100 60    |                         | 4              |                            | 101                    |
|                                                                                |                                           | 13783 F96T12/D/1500 15PK     | 15           | 10000         | 11500 8630 6500 74     | Ⓔ                       | 4              |                            | 101 Daylight           |
|                                                                                |                                           | 13785 F96T12/WW/1500 15PK    | 15           | 10000         | 14000 10500 3000 52    |                         | 4              |                            | 101                    |

Ⓔ Means this lamp meets Federal Minimum Efficiency Standards.

See [www.gelighting.com](http://www.gelighting.com) e-catalog for the most up-to-date product information. To convert inches to millimeters, multiply by 25.4.  
All footnote references found at the end of this section. ⚡ Reduced Wattage Ⓔ High Color Rendering.



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| Bulb Base                                                 | Nominal Length Order | Watts in. | Code  | Description    | Case Qty. | Rated Life | Lumens Initial | Temp. Mean | Color K | CRI | Foot-notes | Warning and Cautions | Additional Information             |
|-----------------------------------------------------------|----------------------|-----------|-------|----------------|-----------|------------|----------------|------------|---------|-----|------------|----------------------|------------------------------------|
| <b>T12 LAMPS (CONTINUED)</b>                              |                      |           |       |                |           |            |                |            |         |     |            |                      |                                    |
| <b>T12 PREHEAT</b>                                        |                      |           |       |                |           |            |                |            |         |     |            |                      |                                    |
| <b>15"</b>                                                |                      |           |       |                |           |            |                |            |         |     |            |                      |                                    |
| T12 Medium BiPin (G13)                                    | 14                   | 15        | 10116 | F14T12/CW      | 24        | 9000       | 650            | 550        | 4100    | 60  |            | 101                  | Preheat                            |
|                                                           |                      |           | 10117 | F14T12/CW 6PK  | 24        | 9000       | 650            | 550        | 4100    | 60  |            | 101                  | Preheat                            |
|                                                           |                      |           | 22979 | F14T12/KB 6PK  | 24        | 9000       | 700            | 650        | 3000    | 70  | ☞          | 104                  | Preheat, Kitchen & Bath            |
| <b>18"</b>                                                |                      |           |       |                |           |            |                |            |         |     |            |                      |                                    |
| T12 Medium BiPin (G13)                                    | 15                   | 18        | 10183 | F15T12/CW 6PK  | 24        | 9000       | 760            | 685        | 4100    | 60  |            | 10                   | Preheat                            |
|                                                           |                      |           | 22745 | F15T12/KB 6PK  | 24        | 9000       | 785            | 730        | 3000    | 70  | ☞          | 104                  | Preheat, Kitchen & Bath            |
|                                                           |                      |           | 10185 | F15T12/WW      | 24        | 9000       | 780            | 700        | 3000    | 52  |            | 101                  | Preheat                            |
| <b>24"</b>                                                |                      |           |       |                |           |            |                |            |         |     |            |                      |                                    |
| T12 Medium BiPin (G13)                                    | 20                   | 24        | 14423 | F20T12/SP35    | 24        | 9000       | 1275           | 1200       | 3500    | 73  | ☞          | 101                  | Preheat                            |
|                                                           |                      |           | 15353 | F20T12/SP41    | 24        | 9000       | 1275           | 1200       | 4100    | 72  | ☞          | 101                  | Preheat                            |
|                                                           |                      |           | 15354 | F20T12/SPX35   | 24        | 9000       | 1300           | 1220       | 3500    | 82  | ☞          | 101                  | Preheat                            |
|                                                           |                      |           | 38114 | F20T12/C50     | 24        | 9000       | 875            | 790        | 5000    | 90  | ☞          | 101                  | Preheat, Chroma 50                 |
|                                                           |                      |           | 10213 | F20T12/CW      | 24        | 9000       | 1200           | 1150       | 4100    | 60  |            | 101                  | Preheat                            |
|                                                           |                      |           | 10214 | F20T12/CW 6PK  | 24        | 9000       | 1200           | 1150       | 4100    | 60  |            | 101                  | Preheat                            |
|                                                           |                      |           | 10205 | F20T12/D       | 24        | 9000       | 1025           | 945        | 6500    | 75  | ☞          | 101                  | Preheat, Daylight                  |
|                                                           |                      |           | 25575 | F20T12/D/UPC   | 24        | 9000       | 1025           | 945        | 6500    | 75  | ☞          | 101                  | Preheat, Daylight                  |
|                                                           |                      |           | 21325 | F20T12/KB 6PK  | 24        | 9000       | 1275           | 1200       | 3000    | 70  | ☞          | 104                  | Preheat, Kitchen & Bath            |
|                                                           |                      |           | 14419 | F20T12/SUN 6PK | 24        | 9000       | 875            | 790        | 5000    | 90  | ☞          | 101                  | Preheat, Sunlight                  |
|                                                           |                      |           | 10217 | F20T12/WW      | 24        | 9000       | 1250           | 1150       | 3000    | 52  |            | 101                  | Preheat, Warm White                |
|                                                           |                      |           | 25577 | F20T12/WW-UPC  | 24        | 9000       | 1250           | 1150       | 3000    | 52  |            | 101                  | Preheat, Warm White                |
| <b>OTHER DIAMETERS</b>                                    |                      |           |       |                |           |            |                |            |         |     |            |                      |                                    |
| <b>T6 INSTANT START</b>                                   |                      |           |       |                |           |            |                |            |         |     |            |                      |                                    |
| T6 Single Pin (Fa8)                                       | 25                   | 42        | 12221 | F42T6/SP35     | 24        | 7500       | 1830           | 1700       | 3500    | 73  | ☞          | 101                  |                                    |
|                                                           |                      |           | 10720 | F42T6/CW       | 24        | 7500       | 1750           | 1580       | 4100    | 60  |            | 101                  |                                    |
|                                                           |                      |           | 10721 | F42T6/WW       | 24        | 7500       | 1825           | 1640       | 3000    | 52  |            | 101                  | Warm White                         |
|                                                           | 40                   | 64        | 12223 | F64T6/SP35     | 24        | 7500       | 2930           | 2720       | 3500    | 73  | ☞          | 101                  |                                    |
|                                                           |                      |           | 10805 | F64T6/CW       | 24        | 7500       | 2800           | 2520       | 4100    | 60  |            | 101                  |                                    |
|                                                           |                      |           | 10807 | F64T6/WW       | 24        | 7500       | 2900           | 2610       | 3000    | 52  |            | 101                  | Warm White                         |
| <b>T17 INSTANT START</b>                                  |                      |           |       |                |           |            |                |            |         |     |            |                      |                                    |
| T17 Mogul BiPin (G20)                                     | 40                   | 60        | 10575 | F40T17/CW/IS   | 12        | 7500       | 2850           | 2620       | 4100    | 60  | 3          | 101                  | Use only w/ instant start ballasts |
| <b>T17 PREHEAT</b>                                        |                      |           |       |                |           |            |                |            |         |     |            |                      |                                    |
| T17 Mogul BiPin (G20)                                     | 82                   | 60        | 43443 | F90T17/CW/WM   | 12        | 9000       | 5750           | 5060       | 4100    | 60  | ⚡ 4        | 101                  |                                    |
|                                                           | 90                   | 60        | 10643 | F90T17/CW      | 12        | 9000       | 6000           | 5280       | 4100    | 60  | 4          | 101                  |                                    |
| <b>PG17 POWER GROOVE RECESSED DOUBLE CONTACT (1500mA)</b> |                      |           |       |                |           |            |                |            |         |     |            |                      |                                    |
| PG17 R17d                                                 | 185                  | 96        | 42666 | F96PG17/CW/WM  | 8         | 12000      | 12700          | 9900       | 4100    | 60  | ⚡ 4        | 101                  |                                    |
|                                                           | 215                  | 96        | 11009 | F96PG17/CW     | 8         | 10000      | 14000          | 10915      | 4100    | 60  | 4          | 101                  |                                    |
|                                                           |                      |           | 11018 | F96PG17/D      | 8         | 10000      | 12100          | 9440       | 6500    | 74  | ☞ 4        | 101                  | Daylight                           |
| <b>T9 CIRCLINE® LAMPS</b>                                 |                      |           |       |                |           |            |                |            |         |     |            |                      |                                    |
| T9 4 Pin (G10q)                                           | 20                   | 6.5       | 42732 | FC6T9/CW       | 12        | 12000      | 800            | 560        | 4100    | 60  |            | 101                  |                                    |
|                                                           | 22                   | 8.25      | 33774 | FC8T9/CW       | 12        | 12000      | 1100           | 825        | 4100    | 60  |            | 101                  |                                    |
|                                                           |                      |           | 11026 | FC8T9/D        | 12        | 12000      | 925            | 690        | 6500    | 75  | ☞          | 101                  | Daylight                           |
|                                                           |                      |           | 11084 | FC8T9/KB       | 6         | 12000      | 1400           | 1120       | 3000    | 82  | ☞          | 104                  | Kitchen & Bath                     |
|                                                           | 32                   | 12        | 33890 | FC12T9/CW      | 12        | 12000      | 1950           | 1460       | 4100    | 60  |            | 101                  |                                    |
|                                                           |                      |           | 11039 | FC12T9/D       | 12        | 12000      | 1675           | 1260       | 6500    | 75  | ☞          | 101                  | Daylight                           |
|                                                           |                      |           | 11085 | FC12T9/KB      | 6         | 12000      | 2400           | 1920       | 3000    | 82  | ☞          | 104                  | Kitchen & Bath                     |
|                                                           | 40                   | 16        | 33893 | FC16T9/CW      | 12        | 12000      | 2700           | 2030       | 4100    | 60  |            | 101                  |                                    |
|                                                           |                      |           | 11052 | FC16T9/D       | 12        | 12000      | 2250           | 1690       | 6500    | 75  | ☞          | 101                  | Daylight                           |



| Bulb Base                     |                      | Nominal Length Order |      | Description | Case Qty.           | Rated Life | Lumens       |         | Color Temp. |      | Foot-notes | Warning and Cautions | Additional Information |                |       |     |
|-------------------------------|----------------------|----------------------|------|-------------|---------------------|------------|--------------|---------|-------------|------|------------|----------------------|------------------------|----------------|-------|-----|
|                               |                      | Watts                | in.  |             |                     |            | Code         | Initial | Mean        | K    |            |                      |                        | CRI            |       |     |
| SPECIAL APPLICATION LAMPS     |                      |                      |      |             |                     |            |              |         |             |      |            |                      |                        |                |       |     |
| COVERGUARD® SHATTER PROTECTED |                      |                      |      |             |                     |            |              |         |             |      |            |                      |                        |                |       |     |
| T5                            |                      |                      |      |             |                     |            |              |         |             |      |            |                      |                        |                |       |     |
| T5 HIGH EFFICIENCY            |                      |                      |      |             |                     |            |              |         |             |      |            |                      |                        |                |       |     |
| T5                            | Miniature BiPin (G5) | 28                   | 45.2 | 81546       | F28T5/830ECO/CVG    | 40         | 20000        | 2840    | 2670        | 3000 | 85         | ☞                    | 11,13                  | 103            |       |     |
|                               |                      |                      |      | 81547       | F28T5/835ECO/CVG    | 40         | 20000        | 2840    | 2670        | 3500 | 85         | ☞                    | 11,13                  | 103            |       |     |
|                               |                      |                      |      | 81548       | F28T5/841ECO/CVG    | 40         | 20000        | 2840    | 2670        | 4100 | 85         | ☞                    | 11,13                  | 103            |       |     |
|                               |                      |                      |      | 81549       | F28T5/850ECO/CVG    | 40         | 20000        | 2840    | 2670        | 5000 | 85         | ☞                    | 11,13                  | 103            |       |     |
|                               |                      |                      |      | 81550       | F28T5/865ECO/CVG    | 40         | 20000        | 2840    | 2670        | 6500 | 85         | ☞                    | 11,13                  | 103            |       |     |
| T5 HIGH OUTPUT                |                      |                      |      |             |                     |            |              |         |             |      |            |                      |                        |                |       |     |
| T5                            | Miniature BiPin (G5) | 54                   | 45.2 | 48433       | F54T5/830ECO/HO/CVG | 40         | 30000        | 4850    | 4560        | 3000 | 85         | ☞                    | 11,13                  | 103            |       |     |
|                               |                      |                      |      | 48436       | F54T5/835ECO/HO/CVG | 40         | 30000        | 4850    | 4560        | 3500 | 85         | ☞                    | 11,13                  | 103            |       |     |
|                               |                      |                      |      | 48458       | F54T5/841ECO/HO/CVG | 40         | 30000        | 4850    | 4560        | 4100 | 85         | ☞                    | 11,13                  | 103            |       |     |
|                               |                      |                      |      | 80311       | F54T5/850ECO/HO/CVG | 40         | 30000        | 4650    | 4560        | 5000 | 85         | ☞                    | 11,13                  | 103            |       |     |
|                               |                      |                      |      | 48469       | F54T5/865ECO/HO/CVG | 40         | 30000        | 4600    | 4320        | 6500 | 85         | ☞                    | 11,13                  | 103            |       |     |
| T5 PREHEAT LAMPS              |                      |                      |      |             |                     |            |              |         |             |      |            |                      |                        |                |       |     |
| T5                            | Miniature BiPin (G5) | 4                    | 6    | 41435       | F4T5/CW/CVG         | 24         | 5000         | 130     | 95          | 4100 | 60         |                      | 11,13                  | 103            |       |     |
|                               |                      |                      |      | 6           | 9                   | 41106      | F6T5/CW/CVG  | 24      | 5000        | 285  | 225        | 4100                 | 60                     |                | 11,13 | 103 |
|                               |                      |                      |      | 8           | 12                  | 41107      | F8T5/CW/CVG  | 24      | 5000        | 385  | 310        | 4100                 | 60                     |                | 11,13 | 103 |
|                               |                      |                      |      | 13          | 21                  | 41108      | F13T5/CW/CVG | 24      | 5000        | 820  | 680        | 4100                 | 60                     |                | 11,13 | 103 |
| T6                            |                      |                      |      |             |                     |            |              |         |             |      |            |                      |                        |                |       |     |
| T6 INSTANT START LAMPS        |                      |                      |      |             |                     |            |              |         |             |      |            |                      |                        |                |       |     |
| T6                            | Single Pin (Fa8)     | 25                   | 42   | 41140       | F42T6/CW/CVG        | 24         | 7500         | 1690    | 1530        | 4100 | 60         |                      | 11,13                  | 103            |       |     |
|                               |                      |                      |      | 41142       | F42T6/SP35/CVG      | 24         | 7500         | 1770    | 1640        | 3500 | 73         | ☞                    | 11,13                  | 103            |       |     |
|                               |                      |                      |      | 41141       | F42T6/WW/CVG        | 24         | 7500         | 1770    | 1590        | 3000 | 52         |                      | 11,13                  | 103 Warm White |       |     |
|                               |                      | 40                   | 64   | 46422       | F64T6/CW/CVG        | 24         | 7500         | 2710    | 2440        | 4100 | 60         |                      | 11,13                  | 103            |       |     |
|                               |                      |                      |      | 41143       | F64T6/SP35/CVG      | 24         | 7500         | 2840    | 2630        | 3500 | 73         | ☞                    | 11,13                  | 103            |       |     |
| T8 ECOLUX® W/ STARCOAT        |                      |                      |      |             |                     |            |              |         |             |      |            |                      |                        |                |       |     |
| 2' T8 ECOLUX® W/ STARCOAT     |                      |                      |      |             |                     |            |              |         |             |      |            |                      |                        |                |       |     |
| T8                            | Medium BiPin (G13)   | 17                   | 24   | 47417       | F17T8/SP30/ECO/CVG  | 24         | 20000        | 1280    | 1220        | 3000 | 78         | ☞                    | 11,13,18               | 103            |       |     |
|                               |                      |                      |      | 15974       | F17T8/SP35/ECO/CVG  | 24         | 20000        | 1280    | 1220        | 3500 | 78         | ☞                    | 11,13,18               | 103            |       |     |
|                               |                      |                      |      | 15877       | F17T8/SP41/ECO/CVG  | 24         | 20000        | 1280    | 1220        | 4100 | 78         | ☞                    | 11,13,18               | 103            |       |     |
|                               |                      |                      |      | 15975       | F17T8/SPX35/ECO/CVG | 24         | 20000        | 1310    | 1242        | 3500 | 86         | ☞                    | 11,13,18               | 103            |       |     |
|                               |                      |                      |      | 15976       | F17T8/SPX41/ECO/CVG | 24         | 20000        | 1310    | 1242        | 4100 | 86         | ☞                    | 11,13,18               | 103            |       |     |
| 3' T8 ECOLUX® W/ STARCOAT     |                      |                      |      |             |                     |            |              |         |             |      |            |                      |                        |                |       |     |
| T8                            | Medium BiPin (G13)   | 25                   | 36   | 15978       | F25T8/SP30/ECO/CVG  | 24         | 20000        | 2020    | 1920        | 3000 | 78         | ☞                    | 11,13,18               | 103            |       |     |
|                               |                      |                      |      | 15981       | F25T8/SP35/ECO/CVG  | 24         | 20000        | 2020    | 1920        | 3500 | 78         | ☞                    | 11,13,18               | 103            |       |     |
|                               |                      |                      |      | 15984       | F25T8/SP41/ECO/CVG  | 24         | 20000        | 2020    | 1920        | 4100 | 78         | ☞                    | 11,13,18               | 103            |       |     |
|                               |                      |                      |      | 15989       | F25T8/SPX30/ECOCVG  | 24         | 20000        | 2080    | 1970        | 3000 | 86         | ☞                    | 11,13,18               | 103            |       |     |
|                               |                      |                      |      | 15990       | F25T8/SPX35/ECOCVG  | 24         | 20000        | 2080    | 1970        | 3500 | 86         | ☞                    | 11,13,18               | 103            |       |     |
|                               |                      |                      |      | 15991       | F25T8/SPX41/ECOCVG  | 24         | 20000        | 2080    | 1970        | 4100 | 86         | ☞                    | 11,13,18               | 103            |       |     |

Ⓔ Means this lamp meets Federal Minimum Efficiency Standards.



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| Bulb Base                                                   | Nominal Length Order | Watts in. | Description | Case Qty. | Rated Life                | Lumens Initial | Temp. Mean | Color K | CRI  | Foot-notes | Warning and Cautions | Additional Information |
|-------------------------------------------------------------|----------------------|-----------|-------------|-----------|---------------------------|----------------|------------|---------|------|------------|----------------------|------------------------|
| <b>SPECIAL APPLICATION LAMPS (CONTINUED)</b>                |                      |           |             |           |                           |                |            |         |      |            |                      |                        |
| <b>COVRGUARD® SHATTER PROTECTED (CONTINUED)</b>             |                      |           |             |           |                           |                |            |         |      |            |                      |                        |
| <b>T8 ECOLUX® W/ STARCOAT® (CONTINUED)</b>                  |                      |           |             |           |                           |                |            |         |      |            |                      |                        |
| <b>4' T8 (48") ECOLUX® W/ STARCOAT®</b>                     |                      |           |             |           |                           |                |            |         |      |            |                      |                        |
| T8                                                          | Medium BiPin (G13)   | 32        | 48          | 40803     | F32T8/SP30/ECO/CVG        | 36             | 20000      | 2715    | 2580 | 3000       | 78 E                 | 1,13,18 103            |
|                                                             |                      |           |             | 40804     | F32T8/SP35/ECO/CVG        | 36             | 20000      | 2715    | 2580 | 3500       | 78 E                 | 1,13,18 103            |
|                                                             |                      |           |             | 40812     | F32T8/SP41/ECO/CVG        | 36             | 20000      | 2715    | 2580 | 4100       | 78 E                 | 1,13,18 103            |
|                                                             |                      |           |             | 18366     | F32T8/SP50/ECO/CVG        | 36             | 20000      | 2665    | 2530 | 5000       | 78 E                 | 1,13,18 103            |
|                                                             |                      |           |             | 18368     | F32T8/SP65/ECO/CVG        | 36             | 20000      | 2620    | 2490 | 6500       | 78 E                 | 1,13,18 103            |
|                                                             |                      |           |             | 41125     | F32T8/SPX30/ECO/CVG       | 36             | 20000      | 2860    | 2710 | 3000       | 86 E                 | 1,13,18 103            |
|                                                             |                      |           |             | 41126     | F32T8/SPX35/ECO/CVG       | 36             | 20000      | 2860    | 2710 | 3500       | 86 E                 | 1,13,18 103            |
|                                                             |                      |           |             | 41127     | F32T8/SPX41/ECO/CVG       | 36             | 20000      | 2860    | 2710 | 4100       | 86 E                 | 1,13,18 103            |
|                                                             |                      |           |             | 15971     | F32T8/SPX50/ECO/CVG       | 36             | 20000      | 2715    | 2580 | 5000       | 86 E                 | 1,13,18 103            |
| <b>4' T8 ECOLUX® XL EXTRA-LIFE W/ STARCOAT®</b>             |                      |           |             |           |                           |                |            |         |      |            |                      |                        |
| T8                                                          | Medium BiPin (G13)   | 32        | 48          | 15972     | F32T8/XL/SPX30ECO/CVG     | 36             | 20000      | 2860    | 2715 | 3000       | 86 E                 | 1,13,18 103            |
|                                                             |                      |           |             | 15973     | F32T8/XL/SPX35ECO/CVG     | 36             | 20000      | 2860    | 2715 | 3500       | 86 E                 | 1,13,18 103            |
|                                                             |                      |           |             | 18369     | F32T8/XL/SPX41ECO/CVG     | 36             | 20000      | 2860    | 2715 | 4100       | 86 E                 | 1,13,18 103            |
|                                                             |                      |           |             | 23746     | F32T8/XL/SPX50ECO/CVG     | 36             | 20000      | 2860    | 2715 | 4100       | 86 E                 | 1,13,18 103            |
| <b>4' T8 ECOLUX® SUPER LONG LIFE W/ STARCOAT®</b>           |                      |           |             |           |                           |                |            |         |      |            |                      |                        |
| T8                                                          | Medium BiPin (G13)   | 32        | 48          | 14560     | F32T8/SXL/SP35/ECO/CVG    | 36             | 30000      | 2765    | 2595 | 3500       | 83 E                 | 1,13,18 103            |
|                                                             |                      |           |             | 14551     | F32T8/SXL/SP41/ECO/CVG    | 36             | 30000      | 2765    | 2595 | 4100       | 81 E                 | 1,13,18 103            |
| <b>ULTRA ENERGY SAVING T8 LAMPS W/ COVRGUARD®</b>           |                      |           |             |           |                           |                |            |         |      |            |                      |                        |
| <b>4' T8 ECOLUX® WATT-MISER® W/ STARCOAT®</b>               |                      |           |             |           |                           |                |            |         |      |            |                      |                        |
| T8                                                          | Medium BiPin (G13)   | 32        | 48          | 40286     | F32T8/SP30/IS/WM/ECO/CVG  | 36             | 20000      | 2790    | 2620 | 3000       | 84 E                 | 1,11,13,18 103         |
|                                                             |                      |           |             | 40299     | F32T8/SP35/IS/WM/ECO/CVG  | 36             | 20000      | 2765    | 2595 | 3500       | 83 E                 | 1,11,13,18 103         |
|                                                             |                      |           |             | 40309     | F32T8/SP41/IS/WM/ECO/CVG  | 36             | 20000      | 2740    | 2570 | 4100       | 81 E                 | 1,11,13,18 103         |
|                                                             |                      |           |             | 47422     | F32T8/SP50/IS/WM/ECO/CVG  | 36             | 20000      | 2740    | 2570 | 4100       | 81 E                 | 1,11,13,18 103         |
| <b>4' T8 ECOLUX® WATT-MISER® XL EXTRA-LIFE W/ STARCOAT®</b> |                      |           |             |           |                           |                |            |         |      |            |                      |                        |
| T8                                                          | Medium BiPin (G13)   | 32        | 48          | 10023     | F32T8/XL/SP30/WM/ECOCVG   | 36             | 24000      | 2740    | 2570 | 3000       | 84 E                 | 1,11,13,18 103         |
|                                                             |                      |           |             | 40297     | F32T8/XL/SP35/WM/ECOCVG   | 36             | 24000      | 2715    | 2545 | 3500       | 83 E                 | 1,11,13,18 103         |
|                                                             |                      |           |             | 40310     | F32T8/XL/SP41/WM/ECOCVG   | 36             | 24000      | 2690    | 2520 | 4100       | 81 E                 | 1,11,13,18 103         |
|                                                             |                      |           |             | 47423     | F32T8/XL/SP50/WM/ECOCVG   | 36             | 24000      | 2690    | 2520 | 4100       | 81 E                 | 1,11,13,18 103         |
| <b>4' T8 ECOLUX® HIGH LUMEN XL EXTRA-LIFE W/ STARCOAT®</b>  |                      |           |             |           |                           |                |            |         |      |            |                      |                        |
| T8                                                          | Medium BiPin (G13)   | 32        | 48          | 00267     | F32T8/XL/SPX30/HL/ECO/CVG | 36             | 24000      | 3005    | 2825 | 4100       | 82 E                 | 1,13,18 103            |
|                                                             |                      |           |             | 00268     | F32T8/XL/SPX35/HL/ECO/CVG | 36             | 24000      | 3005    | 2825 | 3500       | 85 E                 | 1,13,18 103            |
|                                                             |                      |           |             | 00269     | F32T8/XL/SPX41/HL/ECO/CVG | 36             | 24000      | 3005    | 2825 | 3000       | 85 E                 | 1,13,18 103            |
|                                                             |                      |           |             | 80497     | F32T8/XL/SPX50/HL/ECO/CVG | 36             | 24000      | 3005    | 2825 | 4100       | 82 E                 | 1,13,18 103            |
| <b>T8 MOD-U-LINE® 6" SPACING</b>                            |                      |           |             |           |                           |                |            |         |      |            |                      |                        |
| T8                                                          | Medium BiPin (G13)   | 32        | 22.5        | 23655     | F32T8/SP30/U6/CVG         | 12             | 20000      | 2640    | 2510 | 3000       | 78 E                 | 11,13 103              |
|                                                             |                      |           |             | 23656     | F32T8/SP35/U6/CVG         | 12             | 20000      | 2640    | 2510 | 3500       | 78 E                 | 11,13 103              |
|                                                             |                      |           |             | 23657     | F32T8/SP41/U6/CVG         | 12             | 20000      | 2640    | 2510 | 4100       | 78 E                 | 11,13 103              |
|                                                             |                      |           |             | 23658     | F32T8/SPX30/U6/CVG        | 12             | 20000      | 2740    | 2575 | 3000       | 86 E                 | 11,13 103              |
|                                                             |                      |           |             | 23659     | F32T8/SPX35/U6/CVG        | 12             | 20000      | 2740    | 2575 | 3500       | 86 E                 | 11,13 103              |
|                                                             |                      |           |             | 23660     | F32T8/SPX41/U6/CVG        | 12             | 20000      | 2740    | 2575 | 4100       | 86 E                 | 11,13 103              |
| <b>5' T8 W/ STARCOAT®</b>                                   |                      |           |             |           |                           |                |            |         |      |            |                      |                        |
| <b>5' T8 (60") W/ STARCOAT®</b>                             |                      |           |             |           |                           |                |            |         |      |            |                      |                        |
| T8                                                          | Medium BiPin (G13)   | 40        | 60          | 41130     | F40T8/SP35/CVG            | 24             | 20000      | 3490    | 3140 | 3500       | 75                   | 11,13 103              |
|                                                             |                      |           |             | 41131     | F40T8/SPX35/CVG           | 24             | 20000      | 3610    | 3240 | 3500       | 84                   | 11,13 103              |
|                                                             |                      |           |             | 47351     | F40T8/SPX41/CVG           | 24             | 20000      | 3610    | 3250 | 4100       | 80                   | 11,13 103              |

Ⓢ Means this lamp meets Federal Minimum Efficiency Standards.

See [www.gelighting.com](http://www.gelighting.com) e-catalog for the most up-to-date product information. To convert inches to millimeters, multiply by 25.4.  
All footnote references found at the end of this section. ⚡ Reduced Wattage ⚡ High Color Rendering.

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| Bulb Base                                                    | Nominal Length Order |     |      |             | Case Qty.               | Rated Life | Lumens  |      | Color Temp. |      | Foot- notes | Warning and Cautions |     | Additional Information        |
|--------------------------------------------------------------|----------------------|-----|------|-------------|-------------------------|------------|---------|------|-------------|------|-------------|----------------------|-----|-------------------------------|
|                                                              | Watts                | in. | Code | Description |                         |            | Initial | Mean | K           | CRI  |             |                      |     |                               |
| SPECIAL APPLICATION LAMPS (CONTINUED)                        |                      |     |      |             |                         |            |         |      |             |      |             |                      |     |                               |
| COVRGUARD® SHATTER PROTECTED (CONTINUED)                     |                      |     |      |             |                         |            |         |      |             |      |             |                      |     |                               |
| T8 INSTANT START W/ STARCOAT®                                |                      |     |      |             |                         |            |         |      |             |      |             |                      |     |                               |
| 6' T8 (72") INSTANT START                                    |                      |     |      |             |                         |            |         |      |             |      |             |                      |     |                               |
| T8                                                           | Single Pin (Fa8)     | 35  | 72   | 41149       | F72T8/CW/CVG            | 24         | 7500    | 2910 | 2640        | 4100 | 60          | 11,13                | 103 |                               |
| 8' T8 (96") INSTANT START W/ STARCOAT®                       |                      |     |      |             |                         |            |         |      |             |      |             |                      |     |                               |
| T8                                                           | Single Pin (Fa8)     | 59  | 96   | 40094       | F96T8/SP30/CVG          | 24         | 15000   | 5620 | 5330        | 3000 | 75          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 40095       | F96T8/SP35/CVG          | 24         | 15000   | 5620 | 5330        | 3500 | 75          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 40096       | F96T8/SP41/CVG          | 24         | 15000   | 5620 | 5330        | 4100 | 75          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 40099       | F96T8/SPX30CVG          | 24         | 15000   | 5770 | 5480        | 3000 | 84          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 40105       | F96T8/SPX35/CVG         | 24         | 15000   | 5770 | 5480        | 3500 | 84          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 40106       | F96T8/SPX41/CVG         | 24         | 15000   | 5770 | 5480        | 4100 | 80          | 11,13                | 103 |                               |
| 8' T8 HIGH OUTPUT LAMPS RECESSED DOUBLE CONTACT W/ STARCOAT® |                      |     |      |             |                         |            |         |      |             |      |             |                      |     |                               |
| T8                                                           | R17d                 | 86  | 96   | 40107       | F96T8/SP35/HO/CVG       | 24         | 18000   | 7760 | 6980        | 3500 | 75          | 11,12,13             | 103 |                               |
|                                                              |                      |     |      | 40108       | F96T8/SP41/HO/CVG       | 24         | 18000   | 7760 | 6980        | 4100 | 75          | 11,12,13             | 103 |                               |
| T8 PREHEAT LAMPS                                             |                      |     |      |             |                         |            |         |      |             |      |             |                      |     |                               |
| T8                                                           | Medium BiPin (G13)   | 13  | 12   | 41109       | F13T8/CW/CVG            | 24         | 7500    | 545  | 465         | 4100 | 60          | 11,13                | 103 | Preheat                       |
|                                                              |                      | 15  | 18   | 41110       | F15T8/CW/CVG            | 24         | 7500    | 800  | 700         | 4100 | 60          | 11,13                | 103 | Preheat                       |
|                                                              |                      |     |      | 46627       | F15T8/KB/CVG/UPC        | 24         | 7500    | 910  | 825         | 3000 | 70          | 11,13                | 103 | Preheat, Kitchen & Bath       |
|                                                              |                      |     |      | 46216       | F15T8/SP35/CVG          | 24         | 7500    | 910  | 825         | 3500 | 75          | 11,13                | 103 | Preheat                       |
|                                                              |                      |     |      | 41111       | F15T8/SPX35/CVG         | 24         | 7500    | 970  | 870         | 3500 | 82          | 11,13                | 103 | Preheat                       |
|                                                              |                      | 18  | 24   | 41117       | F24T8/CW/4/CVG          | 6          | 7500    | 1180 | 1000        | 4100 | 60          | 11,13                | 103 | Preheat                       |
|                                                              |                      | 19  | 28   | 41121       | F28T8/CW/4/CVG          | 6          | 7500    | 1300 | 1110        | 4100 | 60          | 11,13                | 103 | Preheat                       |
|                                                              |                      | 30  | 36   | 41122       | F30T8/CW/CVG            | 24         | 7500    | 2100 | 1920        | 4100 | 60          | 11,13                | 103 | Preheat                       |
|                                                              |                      |     |      | 46206       | F30T8/SPX30/CVG         | 24         | 7500    | 2230 | 2070        | 3000 | 82          | 11,13                | 103 | Preheat                       |
| T12 RAPID START LAMPS                                        |                      |     |      |             |                         |            |         |      |             |      |             |                      |     |                               |
| 3' ECOLUX® T12 (36")                                         |                      |     |      |             |                         |            |         |      |             |      |             |                      |     |                               |
| T12                                                          | Medium BiPin (G13)   | 30  | 36   | 80486       | F30T12/CW/RS/ECO/CVG    | 24         | 18000   | 2130 | 1850        | 4100 | 60          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 80987       | F30T12/SPX30/RS/ECO/CVG | 24         | 18000   | 2300 | 2070        | 3000 | 82          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 80487       | F30T12/SPX35/RS/ECO/CVG | 24         | 18000   | 2300 | 2070        | 3500 | 86          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 80986       | F30T12/SP35/ECO/CVG     | 24         | 18000   | 2280 | 2050        | 3500 | 73          | 11,13                | 103 |                               |
| 4' T12 ECOLUX® RAPID START LAMPS (48")                       |                      |     |      |             |                         |            |         |      |             |      |             |                      |     |                               |
| T12                                                          | Medium BiPin (G13)   | 40  | 48   | 80495       | F40/CW/ECO/CVG          | 30         | 20000   | 2950 | 2600        | 4100 | 60          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 80992       | F40/CW/ECO/CVG 6PACK    | 6          | 20000   | 2950 | 2600        | 4100 | 60          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 80995       | F40/KB/ECO/CVG/UPC      | 24         | 20000   | 3290 | 2990        | 3000 | 82          | 11,13                | 103 | Kitchen & Bath                |
|                                                              |                      |     |      | 80988       | F40T12/SP30/ECO/CVG     | 30         | 20000   | 3150 | 2860        | 3000 | 70          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 80989       | F40T12/SP35/ECO/CVG     | 30         | 20000   | 3100 | 2820        | 3500 | 73          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 80990       | F40/SP65/ECO/CVG        | 30         | 20000   | 2950 | 2690        | 6500 | 75          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 80493       | F40/SPX30/ECO/CVG       | 30         | 20000   | 3290 | 2990        | 3000 | 82          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 80494       | F40/SPX35/ECO/CVG       | 30         | 20000   | 3290 | 2990        | 3500 | 82          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 80991       | F40/SPX41/ECO/CVG       | 30         | 20000   | 3240 | 2950        | 4100 | 80          | 11,13                | 103 |                               |
|                                                              |                      |     |      | 80993       | F40/D/ECO/CVG           | 30         | 20000   | 2470 | 2170        | 6250 | 75          | 11,13                | 103 | Daylight                      |
|                                                              |                      |     |      | 80994       | F40/DX/ECO/CVG          | 30         | 20000   | 2180 | 1850        | 6500 | 84          | 11,13                | 103 | Daylight Deluxe               |
|                                                              |                      |     |      | 80996       | F40/N/ECO/CVG           | 30         | 20000   | 2030 | 1680        | 3700 | 90          | 11,13                | 103 | Natural                       |
|                                                              |                      |     |      | 80496       | F40/C50/ECO/CVG         | 30         | 20000   | 2180 | 1810        | 5000 | 90          | 11,13                | 103 | Chroma 50                     |
|                                                              |                      |     |      | 41133       | F40/C75/CVG             | 30         | 20000   | 1890 | 1630        | 7500 | 92          | 11,13                | 103 | Chroma 75, non-TCLP Compliant |



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| Bulb Base                                                  | Nominal Length Order | Watts in. | Description                   | Case Qty. | Rated Life | Lumens Initial | Temp. Mean | Color Temp. K | CRI | Foot-notes | Warning and Cautions | Additional Information      |
|------------------------------------------------------------|----------------------|-----------|-------------------------------|-----------|------------|----------------|------------|---------------|-----|------------|----------------------|-----------------------------|
| <b>SPECIAL APPLICATION LAMPS (CONTINUED)</b>               |                      |           |                               |           |            |                |            |               |     |            |                      |                             |
| <b>COVRGUARD® SHATTER PROTECTED (CONTINUED)</b>            |                      |           |                               |           |            |                |            |               |     |            |                      |                             |
| <b>T12 RAPID START LAMPS (CONTINUED)</b>                   |                      |           |                               |           |            |                |            |               |     |            |                      |                             |
| <b>4' T12 ECOLUX® RAPID START WATT-MISER® LAMPS (48")</b>  |                      |           |                               |           |            |                |            |               |     |            |                      |                             |
| T12 Medium BiPin (G13)                                     | 34                   | 48        | 80489 F34/SP35/RS/WM/ECO/CVG  | 30        | 20000      | 2660           | 2400       | 3500          | 73  | ⚡          | 1,11,13              | 103                         |
|                                                            |                      |           | 80490 F34/SP41/RS/WM/ECO/CVG  | 30        | 20000      | 2660           | 2400       | 4100          | 72  | ⚡          | 1,11,13              | 103                         |
|                                                            |                      |           | 80491 F34/SPX41/RS/WM/ECO/CVG | 30        | 20000      | 2820           | 2530       | 4100          | 80  | ⚡          | 1,11,13              | 103                         |
|                                                            |                      |           | 80488 F34/WW/RS/WM/ECO/CVG    | 30        | 20000      | 2620           | 2250       | 3000          | 52  | ⚡          | 1,11,13              | 103 Warm White              |
|                                                            |                      |           | 80492 F34/LW/RS/WM/ECO/CVG    | 30        | 20000      | 2730           | 2350       | 4200          | 49  | ⚡          | 1,11,13              | 103 Lite White              |
|                                                            |                      |           | 40805 F34/CW/RS/WM/ECO/CVG    | 30        | 20000      | 2570           | 2210       | 4100          | 60  | ⚡          | 1,11,13              | 103                         |
|                                                            |                      |           | 41138 F34/SPX30/RS/WM/ECO/CVG | 30        | 20000      | 2810           | 2530       | 3000          | 82  | ⚡          | 1,11,13              | 103                         |
|                                                            |                      |           | 41139 F34/SPX35/RS/WM/ECO/CVG | 30        | 20000      | 2810           | 2530       | 3500          | 82  | ⚡          | 1,11,13              | 103                         |
| <b>4' T12 RAPID START LAMPS UTILITY SHOPLIGHT (48")</b>    |                      |           |                               |           |            |                |            |               |     |            |                      |                             |
| T12 Medium BiPin (G13)                                     | 25                   | 48        | 30                            |           | 12000      | 1800           | 1620       | 4100          | 60  |            | 11,13                | 103                         |
| <b>T12 INSTANT START</b>                                   |                      |           |                               |           |            |                |            |               |     |            |                      |                             |
| T12 Single Pin (Fa8)                                       | 20                   | 24        | 47342 F24T12/CW/CVG           | 24        | 7500       | 870            | 785        | 4100          | 60  |            | 11,13                | 103                         |
|                                                            | 40                   | 48        | 40127 F48T12/CW/CVG           | 24        | 9000       | 2780           | 2560       | 4100          | 60  |            | 11,13                | 103                         |
|                                                            |                      |           | 48091 F48T12/SP35/CVG         | 24        | 9000       | 2910           | 2730       | 4100          | 60  |            | 11,13                | 103                         |
|                                                            |                      |           | 41144 F48T12/SPX35/CVG        | 24        | 9000       | 2950           | 2780       | 3500          | 82  | ⚡          | 11,13                | 103                         |
|                                                            | 50                   | 60        | 41147 F60T12/CW/CVG           | 15        | 12000      | 3490           | 3210       | 4100          | 60  |            | 11,13                | 103                         |
|                                                            | 55                   | 72        | 46213 F72T12/SP35/CVG         | 15        | 12000      | 4550           | 4280       | 3500          | 73  |            | 11,13                | 103                         |
|                                                            |                      |           | 41151 F72T12/SPX30/CVG        | 15        | 12000      | 4650           | 4370       | 3000          | 82  | ⚡          | 11,13                | 103                         |
|                                                            |                      |           | 41153 F72T12/SPX35/CVG        | 15        | 12000      | 4650           | 4370       | 3500          | 82  | ⚡          | 11,13                | 103                         |
|                                                            | 75                   | 96        | 40117 F96T12/CW/CVG           | 15        | 12000      | 5960           | 5480       | 4100          | 60  |            | 11,13                | 103                         |
|                                                            |                      |           | 46215 F96T12/SP35/CVG         | 15        | 12000      | 6300           | 5920       | 3500          | 73  |            | 11,13                | 103                         |
|                                                            |                      |           | 41157 F96T12/SPX30/CVG        | 15        | 12000      | 6590           | 6190       | 3000          | 82  | ⚡          | 11,13                | 103                         |
|                                                            |                      |           | 41158 F96T12/SPX35/CVG        | 15        | 12000      | 6590           | 6190       | 3500          | 82  | ⚡          | 11,13                | 103                         |
|                                                            |                      |           | 41159 F96T12/SPX41/CVG        | 15        | 12000      | 6590           | 6190       | 4100          | 80  | ⚡          | 11,13                | 103                         |
|                                                            |                      |           | 41973 F96T12/DX/CVG           | 15        | 12000      | 4360           | 3920       | 6500          | 84  | ⚡          | 11,13                | 103 Daylight Deluxe         |
|                                                            |                      |           | 46208 F96T12/C50/CVG          | 15        | 12000      | 4460           | 3920       | 5000          | 90  | ⚡          | 11,13                | 103 Chroma 50               |
| <b>T12 INSTANT START ~ WATT-MISER® ENERGY SAVING LAMPS</b> |                      |           |                               |           |            |                |            |               |     |            |                      |                             |
| <b>8' T12 RAPID START WATT-MISER® LAMPS (96")</b>          |                      |           |                               |           |            |                |            |               |     |            |                      |                             |
| T12 Single Pin (Fa8)                                       | 58                   | 96        | 45993 F96T12/SP35/WMP/CVG     | 15        | 12000      | 5520           | 5190       | 3500          | 75  | ⚡          | 1,11,13              | 103                         |
|                                                            | 60                   | 96        | 40115 F96T12/CW/WM/CVG        | 15        | 12000      | 5330           | 4910       | 4100          | 60  | ⚡          | 1,11,13              | 103                         |
|                                                            | 96                   | 96        | 40124 F96T12/SP35/WM/CVG      | 15        | 12000      | 5520           | 5200       | 3500          | 73  | ⚡          | 1,11,13              | 103                         |
| <b>8' T12 ECOLUX® RAPID START WATT-MISER® LAMPS (96")</b>  |                      |           |                               |           |            |                |            |               |     |            |                      |                             |
| T12 Single Pin (Fa8)                                       | 60                   | 96        | 40807 F96T12/CW/WM/ECO/CVG    | 15        | 12000      | 5330           | 4910       | 4100          | 60  |            | 1,11,13              | 103                         |
| <b>T12 MOD-U-LINE® ~ WATT-MISER® ENERGY SAVING LAMPS</b>   |                      |           |                               |           |            |                |            |               |     |            |                      |                             |
| T12 Medium BiPin (G13)                                     | 35                   | 22.5      | 47694 F35/CW/U6/WM/CVG        | 10        | 14000      | 2230           | 2030       | 4100          | 60  | ⚡          | 1,11,13              | 103 6" Spacing Between Legs |
| <b>T12 MOD-U-LINE® 6" SPACING</b>                          |                      |           |                               |           |            |                |            |               |     |            |                      |                             |
| T12 Medium BiPin (G13)                                     | 40                   | 22.5      | 23661 F40T12/SP30/U6/CVG      | 10        | 14000      | 2230           | 2030       | 3000          | 73  | ⚡          | 11,13                | 103                         |
|                                                            |                      |           | 23662 F40T12/SP35/U6/CVG      | 10        | 14000      | 2230           | 2030       | 3500          | 73  | ⚡          | 11,13                | 103                         |
|                                                            |                      |           | 23664 F40T12/SP41/U6/CVG      | 10        | 14000      | 2230           | 2030       | 4100          | 73  | ⚡          | 11,13                | 103                         |



| Bulb Base                                                                              | Nominal Length Order | Watts in. | Code Description              | Case Qty. | Rated Life | Lumens Initial | Color Temp. K | CRI     | Footnotes | Warning and Cautions | Additional Information             |
|----------------------------------------------------------------------------------------|----------------------|-----------|-------------------------------|-----------|------------|----------------|---------------|---------|-----------|----------------------|------------------------------------|
| <b>SPECIAL APPLICATION LAMPS (CONTINUED)</b>                                           |                      |           |                               |           |            |                |               |         |           |                      |                                    |
| <b>COVRGUARD® SHATTER PROTECTED (CONTINUED)</b>                                        |                      |           |                               |           |            |                |               |         |           |                      |                                    |
| <b>T12 PREHEAT</b>                                                                     |                      |           |                               |           |            |                |               |         |           |                      |                                    |
| T12 Medium BiPin (G13)                                                                 | 15                   | 18        | 41114 F15T12/CW/CVG           | 24        | 9000       | 735            | 660           | 4100 60 |           | 11,13                | 103 Preheat                        |
|                                                                                        | 20                   | 24        | 46377 F20T12/C50/CVG          | 24        | 9000       | 845            | 765           | 5000 90 | ☞         | 11,13                | 103 Preheat, Chroma 50             |
|                                                                                        |                      |           | 40125 F20T12/CW/CVG           | 24        | 9000       | 1160           | 1110          | 4100 60 |           | 11,13                | 103 Preheat                        |
|                                                                                        |                      |           | 41000 F20T12/CW/CVG/UPC       | 24        | 9000       | 1160           | 1110          | 4100 60 |           | 11,13                | 103 Preheat, UPC                   |
|                                                                                        |                      |           | 46622 F20T12/KB/CVG/UPC       | 24        | 9000       | 1230           | 1160          | 3000 70 | ☞         | 11,13                | 103 Preheat, Kitchen and Bath, UPC |
|                                                                                        |                      |           | 46218 F20T12/SP35/CVG         | 24        | 9000       | 1230           | 1160          | 3500 73 | ☞         | 11,13                | 103 Preheat                        |
|                                                                                        |                      |           | 41116 F20T12/SPX35/CVG        | 24        | 9000       | 1260           | 1180          | 3500 82 | ☞         | 11,13                | 103 Preheat                        |
|                                                                                        | 25                   | 33        | 41120 F25T12/WW/33/CVG        | 24        | 7500       | 1850           | 1660          | 3000 52 |           | 11,13                | 103 Preheat, Warm White            |
| <b>T12 HIGH OUTPUT LAMPS RECESSED DOUBLE CONTACT</b>                                   |                      |           |                               |           |            |                |               |         |           |                      |                                    |
| T12 R17d                                                                               | 35                   | 24        | 48090 F24T12/CW/HO/CVG        | 24        | 9000       | 1570           | 1300          | 4100 60 |           | 11,12,13             | 103                                |
|                                                                                        | 60                   | 48        | 40129 F48T12/CW/HO/CVG        | 24        | 12000      | 3930           | 3410          | 4100 60 |           | 11,12,13             | 103                                |
|                                                                                        |                      |           | 41146 F48T12/SPX35/HO/CVG     | 24        | 12000      | 4220           | 3800          | 3500 82 | ☞         | 11,12,13             | 103                                |
|                                                                                        |                      |           | 41969 F48T12/D/HO/CVG         | 24        | 12000      | 3290           | 2870          | 6500 75 | ☞         | 11,12,13             | 103 Daylight                       |
|                                                                                        | 75                   | 60        | 41148 F60T12/CW/HO/CVG        | 15        | 12000      | 4990           | 4340          | 4150 62 |           | 11,12,13             | 103                                |
|                                                                                        | 85                   | 72        | 40811 F72T12/CW/HO/CVG        | 15        | 12000      | 6150           | 5350          | 4100 60 |           | 11,12,13             | 103                                |
|                                                                                        |                      |           | 46207 F72T12/SP35/HO/CVG      | 15        | 12000      | 6450           | 5810          | 3500 73 | ☞         | 11,12,13             | 103                                |
|                                                                                        |                      |           | 41152 F72T12/SPX30/HO/CVG     | 15        | 12000      | 6590           | 5930          | 3000 82 | ☞         | 11,12,13             | 103                                |
|                                                                                        |                      |           | 41154 F72T12/SPX35/HO/CVG     | 15        | 12000      | 6590           | 5930          | 3500 82 | ☞         | 11,12,13             | 103                                |
|                                                                                        |                      |           | 48094 F72T12/N/HO/CVG         | 10        | 12000      | 4170           | 3500          | 3700 90 | ☞         | 11,12,13             | 103 Natural                        |
|                                                                                        | 100                  | 84        | 41156 F84T12/CW/HO/CVG        | 15        | 12000      | 7460           | 6490          | 4100 60 |           | 11,12,13             | 103                                |
|                                                                                        | 110                  | 96        | 40808 F96T12/CW/HO/CVG        | 15        | 12000      | 8630           | 7500          | 4100 60 |           | 11,12,13             | 103                                |
|                                                                                        |                      |           | 46210 F96T12/SP35/HO/CVG      | 15        | 12000      | 8920           | 8030          | 3500 73 | ☞         | 11,12,13             | 103                                |
|                                                                                        |                      |           | 45264 F96T12/SP65/HO/CVG      | 15        | 12000      | 8630           | 7760          | 6500 75 | ☞         | 11,12,13             | 103                                |
|                                                                                        |                      |           | 41160 F96T12/SPX30/HO/CVG     | 15        | 12000      | 9070           | 8160          | 3000 82 | ☞         | 11,12,13             | 103                                |
|                                                                                        |                      |           | 41161 F96T12/SPX35/HO/CVG     | 15        | 12000      | 9070           | 8160          | 3500 82 | ☞         | 11,12,13             | 103                                |
|                                                                                        |                      |           | 41162 F96T12/SPX41/HO/CVG     | 15        | 12000      | 9070           | 8160          | 4100 80 | ☞         | 11,12,13             | 103                                |
|                                                                                        |                      |           | 46424 F96T12/D/HO/CVG         | 15        | 12000      | 7370           | 6410          | 6500 75 | ☞         | 11,12,13             | 103 Daylight                       |
|                                                                                        |                      |           | 46430 F96T12/DX/HO/CVG        | 15        | 12000      | 6400           | 5440          | 6500 84 | ☞         | 11,12,13             | 103 Daylight Deluxe                |
| <b>T12 HIGH OUTPUT LAMPS RECESSED DOUBLE CONTACT ~ WATT-MISER® ENERGY SAVING LAMPS</b> |                      |           |                               |           |            |                |               |         |           |                      |                                    |
| T12 R17d                                                                               | 95                   | 96        | 40116 F96T12/CW/HO/WM/CVG     | 15        | 12000      | 7760           | 6750          | 4100 60 |           | 1,11,12,13           | 103                                |
|                                                                                        |                      |           | 40118 F96T12/SP35/HO/WM/CVG   | 15        | 12000      | 8090           | 7290          | 3500 73 | ☞         | 1,11,12,13           | 103                                |
|                                                                                        |                      |           | 40123 F96T12/SP41/HO/WM/CVG   | 15        | 12000      | 8090           | 7290          | 4100 72 | ☞         | 1,11,12,13           | 103                                |
|                                                                                        |                      |           | 16821 F96T12/CW/HO/WM/ECO/CVG | 15        | 12000      | 7760           | 6285          | 4100 60 |           | 1,11,12,13           | 103                                |
| <b>COLD TEMPERATURE</b>                                                                |                      |           |                               |           |            |                |               |         |           |                      |                                    |
| <b>T5</b>                                                                              |                      |           |                               |           |            |                |               |         |           |                      |                                    |
| T5 Miniature BiPin (G5)                                                                | 54                   | 45.2      | 81521 F54T5/835               | 36        | 30000      | 4500           | 4275          | 3500 86 | ☞         | 11,13,17             | 101 Plastic jacket                 |
|                                                                                        |                      |           | 81522 F54T5/841               | 36        | 30000      | 4500           | 4275          | 4100 86 | ☞         | 11,13,17             | 101 Plastic jacket                 |
| <b>T8</b>                                                                              |                      |           |                               |           |            |                |               |         |           |                      |                                    |
| T8 Medium BiPin (G13)                                                                  | 18                   | 24        | 31147 F18WT8/835              | 12        | 20000      | 1215           | 1152          | 3500 86 | ☞         | 11,13,17             | 101 Plastic jacket                 |
|                                                                                        |                      |           | 31148 F18WT8/841              | 12        | 20000      | 1215           | 1152          | 4100 86 | ☞         | 11,13,17             | 101 Plastic jacket                 |
|                                                                                        | 36                   | 48        | 25763 F36WT8/835              | 30        | 20000      | 3015           | 2860          | 3500 86 | ☞         | 11,13,17             | 101 Plastic jacket                 |
|                                                                                        |                      |           | 25764 F36WT8/841              | 30        | 20000      | 3015           | 2860          | 4100 86 | ☞         | 11,13,17             | 101 Plastic jacket                 |
|                                                                                        | 58                   | 60        | 16148 F58WT8/835              | 24        | 20000      | 4680           | 4450          | 3500 86 | ☞         | 11,13,17             | 101 Plastic jacket                 |
|                                                                                        |                      |           | 23752 F58WT8/841              | 24        | 20000      | 4680           | 4450          | 4100 86 | ☞         | 11,13,17             | 101 Plastic jacket                 |
|                                                                                        | 70                   | 72        | 16149 F70WT8/835              | 18        | 20000      | 5670           | 5386          | 3500 86 | ☞         | 11,13,17             | 101 Plastic jacket                 |
|                                                                                        |                      |           | 23754 F70WT8/841              | 18        | 20000      | 5670           | 5386          | 4100 86 | ☞         | 11,13,17             | 101 Plastic jacket                 |



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| Bulb Base                                                    | Nominal Length Order | Watts | in.   | Code               | Description | Case Qty. | Rated Life | Lumens Initial | Temp. Mean | Color K | CRI | Foot-notes | Warning and Cautions | Additional Information       |
|--------------------------------------------------------------|----------------------|-------|-------|--------------------|-------------|-----------|------------|----------------|------------|---------|-----|------------|----------------------|------------------------------|
| <b>SPECIAL APPLICATION LAMPS (CONTINUED)</b>                 |                      |       |       |                    |             |           |            |                |            |         |     |            |                      |                              |
| <b>COLD TEMPERATURE (CONTINUED)</b>                          |                      |       |       |                    |             |           |            |                |            |         |     |            |                      |                              |
| <b>INSTANT START</b>                                         |                      |       |       |                    |             |           |            |                |            |         |     |            |                      |                              |
| T12 Single Pin (Fa8)                                         | 75                   | 96    | 47350 | F96T12/CW-CT       |             | 15        | 12000      | 5960           | 5490       | 4100    | 60  | 11,13,17   | 101                  | Plastic jacket               |
| <b>HIGH OUTPUT (800mA) RECESSED DOUBLE CONTACT</b>           |                      |       |       |                    |             |           |            |                |            |         |     |            |                      |                              |
| T12 R17d                                                     | 35                   | 24    | 48097 | F24T12/CW/HO-CT    |             | 12        | 9000       | 1570           | 1300       | 4100    | 60  | 11,13,17   | 101                  | Plastic jacket               |
|                                                              | 60                   | 48    | 48530 | F48T12/SP35/HO-AT  |             | 12        | 12000      | 4120           | 3710       | 3500    | 73  | 11,13,17   | 101                  | Plastic jacket w/ vent holes |
|                                                              |                      |       | 47352 | F48T12/SPX30/HO-CT |             | 24        | 12000      | 4210           | 3800       | 3000    | 82  | 11,13,17   | 101                  | Plastic jacket               |
|                                                              |                      |       | 45976 | F48T12/CW/HO-AT    |             | 12        | 12000      | 3710           | 3220       | 4100    | 60  | 11,13,17   | 101                  | Plastic jacket w/ vent holes |
|                                                              | 75                   | 60    | 47353 | F60T12/CW/HO-CT    |             | 12        | 12000      | 4990           | 4340       | 4100    | 60  | 11,13,17   | 101                  | Plastic jacket               |
|                                                              | 85                   | 72    | 47346 | F72T12/SP35/HO-CT  |             | 8         | 12000      | 6450           | 5810       | 3500    | 73  | 11,13,17   | 101                  | Plastic jacket               |
|                                                              |                      |       | 46201 | F72T12/SP41/HO-CT  |             | 8         | 12000      | 6450           | 5810       | 4100    | 72  | 11,13,17   | 101                  | Plastic jacket               |
|                                                              |                      |       | 48095 | F72T12/SPX35/HO-CT |             | 8         | 12000      | 6590           | 5930       | 3500    | 82  | 11,13,17   | 101                  | Plastic jacket               |
|                                                              |                      |       | 46199 | F72T12/CW/HO-AT    |             | 8         | 12000      | 6150           | 5350       | 4100    | 60  | 11,13,17   | 101                  | Plastic jacket w/ vent holes |
|                                                              | 110                  | 96    | 45979 | F96T12/SP35/HO-CT  |             | 8         | 12000      | 8920           | 8030       | 3500    | 73  | 11,13,17   | 101                  | Plastic jacket               |
|                                                              |                      |       | 48096 | F96T12/SPX35/HO-CT |             | 8         | 12000      | 9060           | 8160       | 3500    | 82  | 11,13,17   | 101                  | Plastic jacket               |
|                                                              |                      |       | 45912 | F96T12/CW/HO-AT    |             | 8         | 12000      | 8630           | 7500       | 4100    | 60  | 11,13,17   | 101                  | Plastic jacket w/ vent holes |
|                                                              |                      |       | 11918 | F96T12/CW/HO/CT    |             | 15        | 12000      | 8900           | 7740       | 4100    | 60  | 11,13,17   | 101                  | Plastic jacket               |
|                                                              |                      |       | 11919 | F96T12/D/HO/CT     |             | 15        | 12000      | 7600           | 6610       | 6500    | 75  | 11,13,17   | 101                  | Plastic jacket               |
| <b>T10 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT</b> |                      |       |       |                    |             |           |            |                |            |         |     |            |                      |                              |
| T10 R17d                                                     | 110                  | 48    | 10742 | F48T10/CW          |             | 24        | 9000       | 6200           |            | 4100    | 60  | 4          | 101                  |                              |
|                                                              |                      |       | 46196 | F48T10/CW/VHO-CT   |             | 12        | 9000       | 6010           |            | 4100    | 60  | 13, 17     | 101                  | Plastic jacket               |
|                                                              | 135                  | 60    | 17135 | F60T10/SP30        |             | 24        | 6000       | 8500           |            | 3000    | 70  | 4          | 101                  |                              |
|                                                              |                      |       | 39157 | F60T10/CW          |             | 24        | 6000       | 7000           |            | 4100    | 60  | 4          | 101                  |                              |
|                                                              |                      |       | 13002 | F60T10/CW 6PK      |             | 6         | 6000       | 7000           |            | 4100    | 60  | 4          | 101                  |                              |
|                                                              |                      |       | 46197 | F60T10/CW/VHO-CT   |             | 12        | 6000       | 6790           |            | 4100    | 60  | 13, 17     | 101                  | Plastic jacket               |
|                                                              | 160                  | 72    | 13776 | F72T10/CW 15PK     |             | 15        | 9000       | 9700           |            | 4100    | 60  | 4          | 101                  |                              |
|                                                              |                      |       | 46198 | F72T10/CW/VHO-CT   |             | 8         | 9000       | 9400           |            | 4100    | 60  | 13, 17     | 101                  | Plastic jacket               |
| <b>T12 VERY HIGH OUTPUT (1500mA) RECESSED DOUBLE CONTACT</b> |                      |       |       |                    |             |           |            |                |            |         |     |            |                      |                              |
| T12 R17d                                                     | 110                  | 48    | 34206 | F48T12/CW/1500/0   |             | 24        | 10000      | 7000           |            | 4100    | 60  | 4          | 101                  |                              |
|                                                              |                      |       | 46195 | F48T12/CW/VHO-CT   |             | 12        | 10000      | 6790           |            | 4100    | 60  | 15, 17     | 101                  | Plastic jacket               |
|                                                              | 170                  | 72    | 13762 | F72T12/CW/1500/0   |             | 15        | 10000      | 10800          |            | 4100    | 60  | 4          | 101                  |                              |
|                                                              |                      |       | 46200 | F72T12/CW/VHO-CT   |             | 8         | 10000      | 10470          |            | 4100    | 60  | 15, 17     | 101                  | Plastic jacket               |
|                                                              | 220                  | 96    | 13788 | F96T12/CW/1500/0   |             | 15        | 10000      | 14400          |            | 4100    | 60  | 4          | 101                  |                              |
|                                                              |                      |       | 46202 | F96T12/CW/VHO-CT   |             | 8         | 10000      | 13960          |            | 4100    | 60  | 15, 17     | 101                  | Plastic jacket               |
| <b>DIAZO REPROGRAPHIC 1500mA (SUPERBLUE)</b>                 |                      |       |       |                    |             |           |            |                |            |         |     |            |                      |                              |
| <b>T12</b>                                                   |                      |       |       |                    |             |           |            |                |            |         |     |            |                      |                              |
| T12 Medium BiPin (G13)                                       | 120                  | 54    | 40092 | F54"T12/SPB        |             | 24        | 2000       |                |            |         |     | 2          | 101                  |                              |
|                                                              | 125                  | 59    | 39683 | F59"T12/SPB        |             | 24        | 2000       |                |            |         |     | 2          | 101                  |                              |
| <b>T17</b>                                                   |                      |       |       |                    |             |           |            |                |            |         |     |            |                      |                              |
| T17 Mogul BiPin (G20)                                        | 180                  | 54    | 26390 | F54"T17/SPB        |             | 12        | 2000       |                |            |         |     | 2          | 101                  |                              |
| <b>APPLIANCE</b>                                             |                      |       |       |                    |             |           |            |                |            |         |     |            |                      |                              |
| <b>T8</b>                                                    |                      |       |       |                    |             |           |            |                |            |         |     |            |                      |                              |
| T8 Medium BiPin (G13)                                        | 18                   | 22    | 10257 | F22"T8/D/4         |             | 24        | 7500       | 925            | 790        | 6500    | 75  |            | 101                  | Daylight                     |
|                                                              |                      |       | 17705 | F24"T8/CW/4 6PK    |             | 24        | 7500       | 1225           | 1040       | 4100    | 60  |            | 101                  |                              |
|                                                              | 19                   | 26    | 10702 | F26"T8/CW/4        |             | 24        | 7500       | 1275           | 1085       | 4100    | 60  |            | 101                  |                              |
|                                                              |                      |       | 38199 | F26"T8/CW/4 6PK    |             | 24        | 7500       | 1275           | 1085       | 4100    | 60  |            | 101                  |                              |
|                                                              |                      |       | 17704 | F28"T8/CW/4 6PK    |             | 24        | 7500       | 1350           | 1145       | 4100    | 60  |            | 101                  |                              |
|                                                              |                      |       | 10349 | F30"T8/CW/4        |             | 24        | 7500       | 1375           | 1170       | 4100    | 60  |            | 101                  |                              |

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## Fluorescent Lamps

| Bulb Base                                    | Nominal Length Order | Watts in. | Code Description   | Case Qty. | Rated Life | Lumens Initial Mean | Color Temp. K CRI | Foot- notes | Warning and Cautions | Additional Information                                           |
|----------------------------------------------|----------------------|-----------|--------------------|-----------|------------|---------------------|-------------------|-------------|----------------------|------------------------------------------------------------------|
| <b>SPECIAL APPLICATION LAMPS (CONTINUED)</b> |                      |           |                    |           |            |                     |                   |             |                      |                                                                  |
| <b>APPLIANCE (CONTINUED)</b>                 |                      |           |                    |           |            |                     |                   |             |                      |                                                                  |
| <b>T12</b>                                   |                      |           |                    |           |            |                     |                   |             |                      |                                                                  |
| T12 Medium BiPin (G13)                       | 21 30                | 10355     | F30" T12/CW        | 24        | 7500       | 1350 1220 4100 60   |                   |             | 101                  |                                                                  |
|                                              | 25 28                | 10282     | F25T12CW/28 6PK    | 24        | 7500       | 1550 1390 4100 60   |                   |             | 101                  |                                                                  |
|                                              |                      | 10286     | F25T12/D/28        | 24        | 7500       | 1450 1310 6500 75   |                   |             | 101                  | Daylight                                                         |
|                                              | 33                   | 38201     | F25T12/CW/33 6PK   | 24        | 7500       | 1860 1675 4100 60   |                   |             | 101                  |                                                                  |
|                                              |                      | 10299     | F25T12/D/33        | 24        | 7500       | 1600 1440 6500 75   |                   |             | 101                  | Daylight                                                         |
|                                              |                      | 10293     | F25T12/WW/33       | 24        | 7500       | 1910 1720 3000 52   |                   |             | 101                  | Warm White                                                       |
| <b>BLACKLIGHT/BLACKLIGHT BLUE</b>            |                      |           |                    |           |            |                     |                   |             |                      |                                                                  |
| <b>BLACKLIGHT</b>                            |                      |           |                    |           |            |                     |                   |             |                      |                                                                  |
| T8 Medium BiPin (G13)                        | 15 18                | 35884     | F15T8/BL 6PK       | 24        | 7500       |                     |                   | 8           | 105                  | Blacklight, UVA Source                                           |
| T12 Medium BiPin (G13)                       | 20 24                | 10244     | F20T12/BL 6PK      | 24        | 9000       |                     |                   | 8           | 105                  | Blacklight, UVA Source                                           |
|                                              | 40 22.5              | 40537     | F40BL/U/3          | 12        | 14000      |                     |                   | 8           | 105                  | Blacklight, UVA Source, Mod-U-Line®; 3 5/8" Spacing Between Legs |
|                                              | 48                   | 10526     | F40BL 6PK          | 24        | 20000      |                     |                   | 8           | 105                  | Blacklight, UVA Source                                           |
| <b>BLACKLIGHT BLUE</b>                       |                      |           |                    |           |            |                     |                   |             |                      |                                                                  |
| T5 Miniature BiPin (G5)                      | 4 6                  | 10019     | F4T5/BLB           | 24        | 5000       |                     |                   | 8           | 101                  | Blacklight Blue, UVA Source, Integral Dark Blue Filter           |
|                                              | 8 12                 | 10077     | F8T5/BLB           | 24        | 5000       |                     |                   | 8           | 101                  | Blacklight Blue, UVA Source, Integral Dark Blue Filter           |
| T8 Medium BiPin (G13)                        | 15 18                | 35885     | F15T8/BLB 6PK      | 24        | 7500       |                     |                   | 8           | 101                  | Blacklight Blue, UVA Source, Integral Dark Blue Filter           |
| T9 4 Pin (G10q)                              | 22 8.25              | 25665     | FC8T9/BLB          | 6         | 12000      |                     |                   | 8           | 101                  | Blacklight Blue, UVA Source, Integral Dark Blue Filter           |
| T12 Medium BiPin (G13)                       | 20 24                | 34747     | F20T12/BLB 6PK     | 24        | 9000       |                     |                   | 8           | 101                  | Blacklight Blue, UVA Source, Integral Dark Blue Filter           |
|                                              | 40 48                | 10531     | F40BLB 6PK         | 24        | 20000      |                     |                   | 8           | 101                  | Blacklight Blue, UVA Source, Integral Dark Blue Filter           |
| <b>COLOR LAMPS</b>                           |                      |           |                    |           |            |                     |                   |             |                      |                                                                  |
| <b>T8</b>                                    |                      |           |                    |           |            |                     |                   |             |                      |                                                                  |
| T8 Medium BiPin (G13)                        | 32 48                | 15992     | F32T8/R/24/ECO/CVG | 36        | 20000      |                     |                   |             | 103                  | Sleeved Rosco Red 24                                             |
|                                              |                      | 15993     | F32T8/B/65/ECO/CVG | 36        | 20000      |                     |                   |             | 103                  | Sleeved Rosco Blue 65                                            |
|                                              |                      | 15994     | F32T8/G/89/ECO/CVG | 36        | 20000      |                     |                   |             | 103                  | Sleeved Rosco Green 89                                           |
| <b>T12</b>                                   |                      |           |                    |           |            |                     |                   |             |                      |                                                                  |
| T12 Medium BiPin (G13)                       | 40 48                | 10514     | F40/B 6 PK         | 24        | 20000      | 1200 720            |                   |             | 101                  | Phosphor Blue                                                    |
|                                              |                      | 10517     | F40/G 6 PK         | 24        | 20000      | 4000 2000           |                   |             | 101                  | Phosphor Green                                                   |
|                                              |                      | 81003     | F40T12/R24/ECO/CVG | 30        | 20000      |                     |                   |             | 103                  | Sleeved Rosco Red 24                                             |
|                                              |                      | 81001     | F40T12/B65/ECO/CVG | 30        | 20000      |                     |                   |             | 103                  | Sleeved Rosco Blue 65                                            |
|                                              |                      | 81002     | F40T12/G89/ECO/CVG | 30        | 20000      |                     |                   |             | 103                  | Sleeved Rosco Green 89                                           |
| <b>PREHEAT</b>                               |                      |           |                    |           |            |                     |                   |             |                      |                                                                  |
| T12 Medium BiPin (G13)                       | 20 24                | 48259     | F20T12/R/24/CVG    | 24        | 9000       |                     |                   |             | 103                  | Sleeved Rosco Red 24                                             |
|                                              |                      | 48260     | F20T12/B/65/CVG    | 24        | 9000       |                     |                   |             | 103                  | Sleeved Rosco Blue 65                                            |
|                                              |                      | 48261     | F20T12/G/89/CVG    | 24        | 9000       |                     |                   |             | 103                  | Sleeved Rosco Green 89                                           |
|                                              |                      | 10231     | F20T12/B 6PK       | 24        | 9000       | 450 330             |                   |             | 101                  | Phosphor Blue                                                    |
|                                              |                      | 10233     | F20T12/G 6PK       | 24        | 9000       | 1575 975            |                   |             | 101                  | Phosphor Green                                                   |
| <b>GOLD</b>                                  |                      |           |                    |           |            |                     |                   |             |                      |                                                                  |
| <b>T5 LAMPS</b>                              |                      |           |                    |           |            |                     |                   |             |                      |                                                                  |
| T5 Miniature BiPin (G5)                      | 28 45.2              | 25768     | F28T5/GO/CVG       | 40        | 20000      | 1986 1946 GoldN/A   |                   |             | 103                  |                                                                  |



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| Bulb Base                    | Nominal Length Order  |                        |      | Description | Case Qty.         | Rated Life | Lumens  |      | Color Temp. |      | Foot- notes | Warning and Cautions | Additional Information                          |
|------------------------------|-----------------------|------------------------|------|-------------|-------------------|------------|---------|------|-------------|------|-------------|----------------------|-------------------------------------------------|
|                              | Watts                 | in.                    | Code |             |                   |            | Initial | Mean | K           | CRI  |             |                      |                                                 |
| GOLD (CONTINUED)             |                       |                        |      |             |                   |            |         |      |             |      |             |                      |                                                 |
| T8 LAMPS                     |                       |                        |      |             |                   |            |         |      |             |      |             |                      |                                                 |
| T8                           | Medium BiPin (G13)    | 17                     | 24   | 25779       | F17T8/GO/CVG      | 24         | 20000   | 970  | 950         | Gold | N/A         | 103                  | Gold Sleeved, Blocks UV and Deep Blue Emissions |
|                              |                       | 15                     | 36   | 25783       | F25T8/GO/CVG      | 24         | 20000   | 1590 | 1558        | Gold | N/A         | 103                  | Gold Sleeved, Blocks UV and Deep Blue Emissions |
|                              |                       | 32                     | 48   | 25784       | F32T8/GO/CVG      | 36         | 20000   | 2280 | 2235        | Gold | N/A         | 103                  | Gold Sleeved, Blocks UV and Deep Blue Emissions |
|                              |                       | 36                     | 48   | 81334       | F36T8/GO/CVG      | 25         | 20000   | 2600 | 2545        | Gold | N/A         | 103                  | Gold Sleeved, Blocks UV and Deep Blue Emissions |
|                              |                       | 58                     | 60   | 80053       | F58T8/GO/CVG      | 25         | 20000   | 4080 | 4000        | Gold | N/A         | 103                  | Gold Sleeved, Blocks UV and Deep Blue Emissions |
|                              |                       | 59                     | 96   | 25810       | F96T8/GO/CVG      | 24         | 20000   | 4492 | 4400        | Gold | N/A         | 103                  | Gold Sleeved, Blocks UV and Deep Blue Emissions |
| T12 LAMPS                    |                       |                        |      |             |                   |            |         |      |             |      |             |                      |                                                 |
| T12                          | Medium BiPin (G13)    | 40                     | 48   | 25850       | F40/GO/CVG        | 30         | 20000   | 2510 | 2460        | Gold | N/A         | 103                  | Gold Sleeved, Blocks UV and Deep Blue Emissions |
|                              | Single Pin (Fa8)      | 55                     | 72   | 25854       | F72T12/GO/CVG     | 15         | 12000   | 4150 | 4070        | Gold | N/A         | 103                  | Gold Sleeved, Blocks UV and Deep Blue Emissions |
|                              |                       | 75                     | 96   | 25852       | F96T12/GO/CVG     | 15         | 12000   | 5640 | 5530        | Gold | N/A         | 103                  | Gold Sleeved, Blocks UV and Deep Blue Emissions |
|                              | R17d                  | 110                    | 96   | 25853       | F96T12/GO/HO/CVG  | 15         | 12000   | 8010 | 7850        | Gold | N/A         | 103                  | Gold Sleeved, Blocks UV and Deep Blue Emissions |
|                              | GROCERY DISPLAY LAMPS |                        |      |             |                   |            |         |      |             |      |             |                      |                                                 |
| T12                          | Medium BiPin (G13)    | 40                     | 48   | 81000       | F40T12/FL/ECO/CVG | 30         | 20000   | 1925 | 1450        | 2750 |             |                      | CovrFresh®                                      |
| GERMICIDAL                   |                       |                        |      |             |                   |            |         |      |             |      |             |                      |                                                 |
| T5                           | Miniature BiPin (G5)  | 4                      | 6    | 15872       | G4T5              | 24         | 6000    |      |             |      |             | 9, 16                | 106 Clear, UVC Source                           |
|                              |                       | 6                      | 8    | 15873       | G6T5              | 24         | 6000    |      |             |      |             | 9, 16                | 106 Clear, UVC Source                           |
|                              |                       | 8                      | 12   | 11077       | G8T5              | 24         | 6000    |      |             |      |             | 9, 16                | 106 Clear, UVC Source                           |
|                              |                       | 11                     | 11.9 | 29495       | G11T5             | 24         | 8000    |      |             |      |             | 9, 16                | 106 Clear, UVC Source                           |
|                              |                       | 16                     | 8.91 | 16495       | G16T5             | 24         | 8000    |      |             |      |             | 9, 16                | 106 Clear, UVC Source                           |
|                              | Single Pin (Fa8)      | 39                     | 36   | 15874       | G36T5             | 24         | 9000    |      |             |      |             | 9, 16                | 106 Clear, UVC Source                           |
|                              |                       | 65                     | 64   | 15864       | G64T5             | 24         | 9000    |      |             |      |             | 9, 16                | 106 Clear, UVC Source                           |
|                              |                       | GERMICIDAL (CONTINUED) |      |             |                   |            |         |      |             |      |             |                      |                                                 |
| T8                           | Medium BiPin (G13)    | 10                     | 13.6 | 29498       | G10T8             | 24         | 6000    |      |             |      |             | 9, 16                | 106 Clear, UVC Source                           |
|                              |                       | 15                     | 18   | 11078       | G15T8             | 24         | 8000    |      |             |      |             | 9, 16                | 106 Clear, UVC Source                           |
|                              |                       | 25                     | 18   | 11082       | G25T8             | 24         | 8000    |      |             |      |             | 9, 16                | 106 Clear, UVC Source                           |
|                              |                       | 30                     | 36   | 11080       | G30T8             | 24         | 8000    |      |             |      |             | 9, 16                | 106 Clear, UVC Source                           |
|                              |                       | 36                     | 48   | 29499       | G36T5             | 24         | 8000    |      |             |      |             | 9, 16                | 106 Clear, UVC Source                           |
|                              |                       | 55                     | 36   | 15875       | G55T8/HO          | 24         | 8000    |      |             |      |             | 9, 16                | 106 Clear, UVC Source                           |
| T10                          | Medium BiPin (G13)    | 20                     | 24   | 15876       | G20T10            | 24         | 8000    |      |             |      |             | 9, 16                | 106 Clear, UVC Source                           |
|                              |                       | 40                     | 48   | 29532       | G40T10            | 24         | 8000    |      |             |      |             | 9, 16                | 106 Clear, UVC Source                           |
| PLANT AND AQUARIUM/TERRARIUM |                       |                        |      |             |                   |            |         |      |             |      |             |                      |                                                 |
| T8 LAMPS                     |                       |                        |      |             |                   |            |         |      |             |      |             |                      |                                                 |
| 15" T8 LAMPS                 |                       |                        |      |             |                   |            |         |      |             |      |             |                      |                                                 |
| T8                           | Medium BiPin (G13)    | 14                     | 15   | 41373       | F14T8/AR/FR 6PK   | 24         | 7500    | 360  | 4000        | 92   |             | 104                  | Aquarium Lamp Freshwater                        |
|                              |                       |                        |      | 40903       | F14T8/AR/FS/6PK   | 24         | 7500    | 550  | 9325        | 64   |             | 104                  | Aquarium Lamp Fresh and Saltwater               |
|                              |                       |                        |      | 41375       | F14T8/AR/SA 6PK   | 24         | 7500    | 190  | 10000       | 62   |             | 104                  | Aquarium Lamp Saltwater                         |
|                              |                       |                        |      | 41377       | F14T8/SR 6PK      | 24         | 7500    | 565  | 5000        | 90   |             | 104                  | Aquarium/Terrarium Lamp                         |
| 18" T8 LAMPS                 |                       |                        |      |             |                   |            |         |      |             |      |             |                      |                                                 |
| T8                           | Medium BiPin (G13)    | 15                     | 18   | 22907       | F15T8/AR/FR 6PK   | 24         | 7500    | 425  | 4000        | 92   |             | 104                  | Aquarium Lamp Freshwater                        |
|                              |                       |                        |      | 22910       | F15T8/AR/FS 6PK   | 24         | 7500    | 675  | 9325        | 64   |             | 104                  | Aquarium Lamp Fresh and Saltwater               |

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## Fluorescent Lamps

| Bulb Base                                       | Nominal Length Order | Watts in. | Code Description          | Case Qty. | Rated Life | Lumens Initial Mean | Color Temp. K CRI | Foot- notes | Warning and Cautions | Additional Information            |
|-------------------------------------------------|----------------------|-----------|---------------------------|-----------|------------|---------------------|-------------------|-------------|----------------------|-----------------------------------|
| <b>PLANT AND AQUARIUM/TERRARIUM (CONTINUED)</b> |                      |           |                           |           |            |                     |                   |             |                      |                                   |
| <b>T8 LAMPS (CONTINUED)</b>                     |                      |           |                           |           |            |                     |                   |             |                      |                                   |
| <b>18" T8 LAMPS (CONTINUED)</b>                 |                      |           |                           |           |            |                     |                   |             |                      |                                   |
| T8 Medium BiPin (G13)                           | 15                   | 18        | 22920 F15T8/AR/SA 6PK     | 24        | 7500       | 210                 | 1000 62           |             | 104                  | Aquarium Lamp Saltwater           |
|                                                 |                      |           | 49892 F15T8/PL/AQ 6PK     | 24        | 7500       | 510                 | 3100 90           |             | 104                  | Plant & Aquarium Wide Spectrum    |
|                                                 |                      |           | 22904 F15T8/SR 6PK        | 24        | 7500       | 620                 | 5000 90           |             | 104                  | Aquarium/Terrarium Lamp           |
| <b>36" T8 LAMPS</b>                             |                      |           |                           |           |            |                     |                   |             |                      |                                   |
| T8 Medium BiPin (G13)                           | 30                   | 36        | 41374 F30T8/AR/FR 6PK     | 24        | 9000       | 630                 | 4000 92           |             | 104                  | Aquarium Lamp Freshwater          |
|                                                 |                      |           | 40904 F30T8/AR/FS 6PK     | 24        | 9000       | 1400                | 9235 64           |             | 104                  | Aquarium Lamp Fresh and Saltwater |
|                                                 |                      |           | 41376 F30T8/AR/SA 6PK     | 24        | 9000       | 315                 | 1000062           |             | 104                  | Aquarium Lamp Saltwater           |
| <b>T12 LAMPS</b>                                |                      |           |                           |           |            |                     |                   |             |                      |                                   |
| <b>24" T12 LAMPS</b>                            |                      |           |                           |           |            |                     |                   |             |                      |                                   |
| T12 Medium BiPin (G13)                          | 20                   | 24        | 22908 F20T12/AR/FR 6PK    | 24        | 9000       | 600                 | 4000 92           |             | 104                  | Aquarium Lamp Freshwater          |
|                                                 |                      |           | 22911 F20T12/AR/FS 6PK    | 24        | 9000       | 950                 | 9325 64           |             | 104                  | Aquarium Lamp Fresh and Saltwater |
|                                                 |                      |           | 22922 F20T12/AR/SA 6PK    | 24        | 9000       | 270                 | 1000 62           |             | 104                  | Aquarium Lamp Saltwater           |
|                                                 |                      |           | 49891 F20T12/PL/AQ 6PK    | 24        | 9000       | 750                 | 3100 90           |             | 104                  | Plant & Aquarium Wide Spectrum    |
|                                                 |                      |           | 22905 F20T12/SR 6PK       | 24        | 9000       | 875                 | 5000 90           |             | 104                  | Aquarium/Terrarium Lamp           |
| <b>36" T12 LAMPS</b>                            |                      |           |                           |           |            |                     |                   |             |                      |                                   |
| T12 Medium BiPin (G13)                          | 30                   | 36        | 41378 F30T12/SR 6PK       | 24        | 18000      | 1100                | 5000 90           |             | 104                  | Aquarium/Terrarium Lamp           |
| <b>48" T12 LAMPS</b>                            |                      |           |                           |           |            |                     |                   |             |                      |                                   |
| T12 Medium BiPin (G13)                          | 40                   | 48        | 22909 F40T12/AR/FR 6PK    | 24        | 9000       | 1425                | 4000 92           |             | 104                  | Aquarium Lamp Freshwater          |
|                                                 |                      |           | 22914 F40T12/AR/FS 6PK    | 24        | 9000       | 2350                | 9325 64           |             | 104                  | Aquarium Lamp Fresh and Saltwater |
|                                                 |                      |           | 22923 F40T12/AR/SA 6PK    | 24        | 9000       | 700                 | 1000 62           |             | 104                  | Aquarium Lamp Saltwater           |
|                                                 |                      |           | 49893 F40PL/AQ 6PK        | 24        | 20000      | 1900                | 3100 90           |             | 104                  | Plant & Aquarium Wide Spectrum    |
|                                                 |                      |           | 22906 F40T12/SR 6PK       | 24        | 20000      | 2250                | 5000 90           |             | 104                  | Aquarium/Terrarium Lamp           |
| <b>EXPORT OUTSIDE U.S. AND CANADA ONLY</b>      |                      |           |                           |           |            |                     |                   |             |                      |                                   |
| T12 Medium BiPin (G13)                          | 40                   | 22.5      | 14496 F40CW/U/6/EX        | 12        | 14000      | 2800                | 2460 4100 60      |             | 102                  | 6" Spacing Between Legs           |
|                                                 |                      |           | 14498 F40D/U/6/EX         | 12        | 14000      | 2350                | 2070 6500 75      |             | 102                  | Daylight, 6" Spacing Between Legs |
|                                                 | 40                   | 48        | 14656 F40CW/EX-30PK       | 30        | 20000      | 3050                | 2680 4100 60      |             | 101                  |                                   |
|                                                 |                      |           | 14488 F40D/EX             | 30        | 20000      | 2550                | 2240 6500 75      |             | 101                  | Daylight                          |
| Single Pin (Fa8)                                | 75                   | 96        | 12541 F96T12CW/EX-15PK    | 15        | 12000      | 6150                | 5660 4100 60      |             | 101                  |                                   |
|                                                 |                      |           | 12543 F96T12/D/EX-15PK    | 15        | 12000      | 5250                | 4330 6500 75      |             | 101                  | Daylight                          |
| R17d                                            | 110                  | 96        | 12540 F96T12CW/HO/EX      | 15        | 12000      | 8900                | 7740 4100 60      |             | 101                  |                                   |
|                                                 |                      |           | 12542 F96T12D/HO/EX-15    | 15        | 12000      | 7600                | 6610 6500 75      |             | 101                  | Daylight                          |
| <b>CONSUMER PRODUCTS</b>                        |                      |           |                           |           |            |                     |                   |             |                      |                                   |
| <b>T8</b>                                       |                      |           |                           |           |            |                     |                   |             |                      |                                   |
| <b>4' T8</b>                                    |                      |           |                           |           |            |                     |                   |             |                      |                                   |
| T8 Medium BiPin (G13)                           | 32                   | 48        | 15900 F32T8/SP30/ECO/UPC  | 36        | 20000      | 2800                | 2660 3000 78      |             | 101                  |                                   |
|                                                 |                      |           | 15903 F32T8/SP35/ECO/UPC  | 36        | 20000      | 2800                | 2660 3500 78      |             | 101                  |                                   |
|                                                 |                      |           | 11873 F32T8/SP35/ECO 12PK | 12        | 20000      | 2800                | 2660 3500 78      |             | 101                  |                                   |
|                                                 |                      |           | 15909 F32T8/SP41/ECO/UPC  | 36        | 20000      | 2800                | 2660 4100 78      |             | 101                  |                                   |
|                                                 |                      |           | 15904 F32T8/SP41/ECO/C    | 12        | 20000      | 2800                | 2660 4100 78      |             | 101                  |                                   |
|                                                 |                      |           | 16263 F32T8/RESI/ECO/2PK  | 6         | 15000      | 2650                | 2385 4100 78      |             | 101                  |                                   |
|                                                 |                      |           | 31231 F32T8/RES/ECO/2PK   | 24        | 15000      | 2650                | 2385 4100 78      |             | 101                  |                                   |
|                                                 |                      |           | 49356 F32T8/KB/ECO/2PK    | 6         | 20000      | 2800                | 2660 3000 78      |             | 104                  | Kitchen & Bath                    |
|                                                 |                      |           | 49357 F32T8/KB/ECO/2PK-24 | 24        | 20000      | 2800                | 2660 3000 78      |             | 104                  | Kitchen & Bath                    |
|                                                 |                      |           | 29566 F32T8/D/ECO/2PK     | 24        | 20000      | 2700                | 2565 6500 78      |             | 101                  | Daylight                          |
|                                                 |                      |           | 87783 F32T8/D/ECO/TW      | 6         | 20000      | 2700                | 2565 6500 78      |             | 101                  | Daylight                          |

© Means this lamp meets Federal Minimum Efficiency Standards.

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All footnote references found at the end of this section. ⚡ Reduced Wattage ⚡ High Color Rendering.



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| Bulb Base                                             | Nominal Length Order | Watts | in.  | Code  | Description             | Case Qty. | Rated Life | Lumens Initial | Temp. Mean | Color Temp. K | CRI | Foot-notes | Warning and Cautions | Additional Information |
|-------------------------------------------------------|----------------------|-------|------|-------|-------------------------|-----------|------------|----------------|------------|---------------|-----|------------|----------------------|------------------------|
| <b>CONSUMER PRODUCTS (CONTINUED)</b>                  |                      |       |      |       |                         |           |            |                |            |               |     |            |                      |                        |
| <b>T8</b>                                             |                      |       |      |       |                         |           |            |                |            |               |     |            |                      |                        |
| <b>8' T8</b>                                          |                      |       |      |       |                         |           |            |                |            |               |     |            |                      |                        |
| T8                                                    | Single Pin (Fa8)     | 59    | 96   | 10401 | F96T8/SP41/UPC          | 24        | 15000      | 5800           | 5500       | 4100          | 78  | Ⓔ Ⓔ        | 101                  |                        |
| <b>T12</b>                                            |                      |       |      |       |                         |           |            |                |            |               |     |            |                      |                        |
| <b>4' F40 ECOLUX® STANDARD</b>                        |                      |       |      |       |                         |           |            |                |            |               |     |            |                      |                        |
| T12                                                   | Medium BiPin (G13)   | 40    | 48   | 23382 | F40SP41/ECO/C           | 10        | 20000      | 3200           | 2910       | 4100          | 72  | Ⓔ Ⓔ        | 101                  |                        |
|                                                       |                      |       |      | 25400 | F40SP65/ECO/UPC         | 30        | 20000      | 3050           | 2775       | 6500          | 75  | Ⓔ Ⓔ        | 101                  |                        |
|                                                       |                      |       |      | 25399 | F40/C50/ECO/UPC         | 30        | 20000      | 2250           | 1870       | 5000          | 90  | Ⓔ          | 101                  | Chroma 50              |
|                                                       |                      |       |      | 16083 | F40D/ULTRA/ECO/2PK      | 9         | 20000      | 3050           | 2775       | 6500          | 75  | Ⓔ Ⓔ        | 101                  | Daylight Ultra         |
|                                                       |                      |       |      | 13969 | F40D/ULTRA/ECO/6PK      | 24        | 20000      | 3050           | 2775       | 6500          | 75  | Ⓔ Ⓔ        | 101                  | Daylight Ultra         |
|                                                       |                      |       |      | 40333 | F40/KB/ECO 2PK          | 9         | 20000      | 3400           | 3090       | 3000          | 70  | Ⓔ Ⓔ        | 104                  | Kitchen & Bath         |
|                                                       |                      |       |      | 21323 | F40/KB/ECO 6PK          | 24        | 20000      | 3400           | 3090       | 3000          | 70  | Ⓔ Ⓔ        | 104                  | Kitchen & Bath         |
|                                                       |                      |       |      | 12224 | F40/SUN/ECO/6PK         | 24        | 20000      | 2250           | 1870       | 5000          | 90  | Ⓔ          | 101                  | Sunlight               |
|                                                       |                      |       |      | 10949 | F40/RES/ECO/LL/2PK      | 9         | 20000      | 3200           | 2910       | 4100          | 72  | Ⓔ Ⓔ        | 101                  |                        |
|                                                       |                      |       |      | 14440 | F40/RES/ECO/SLV         | 30        | 15000      | 3150           | 2860       | 4100          | 72  | Ⓔ Ⓔ        | 101                  |                        |
|                                                       |                      |       |      | 14433 | F40/RES/ECO/SLV 6PK     | 24        | 15000      | 3150           | 2860       | 4100          | 72  | Ⓔ Ⓔ        | 101                  |                        |
|                                                       |                      |       |      | 14441 | F40/RES/ECO/TWIN-9PK    | 9         | 15000      | 3150           | 2860       | 4100          | 72  | Ⓔ Ⓔ        | 101                  |                        |
|                                                       |                      |       |      | 48510 | F40/RES/ECO/TWIN-15PK   | 15        | 15000      | 3150           | 2860       | 4100          | 72  | Ⓔ Ⓔ        | 101                  |                        |
| <b>4' ECOLUX® UTILITY SHOPLIGHT</b>                   |                      |       |      |       |                         |           |            |                |            |               |     |            |                      |                        |
| T12                                                   | Medium BiPin (G13)   | 25    | 48   | 14445 | F48"/25W/UTECOUPC       | 30        | 12000      | 1860           | 1675       | 4100          | 60  |            | 10                   | 101                    |
|                                                       |                      |       |      | 14450 | F48"/25W/UTECOSLV       | 30        | 12000      | 1860           | 1675       | 4100          | 60  |            | 10                   | 101                    |
|                                                       |                      |       |      | 14456 | F48"/25W/UTECOTWN       | 9         | 12000      | 1860           | 1675       | 4100          | 60  |            | 10                   | 101                    |
|                                                       |                      |       |      | 48511 | F48"/25W/UTECO2PK       | 15        | 12000      | 1860           | 1675       | 4100          | 60  |            | 10                   | 101                    |
| <b>4' F34 ECOLUX® WATT-MISER® ENERGY SAVING LAMPS</b> |                      |       |      |       |                         |           |            |                |            |               |     |            |                      |                        |
| T12                                                   | Medium BiPin (G13)   | 34    | 48   | 25401 | F34/SP30/RS/WM/ECO/UPC  | 30        | 20000      | 2750           | 2475       | 3000          | 70  | Ⓔ Ⓔ ⚡      | 1                    | 101                    |
|                                                       |                      |       |      | 23486 | F34/SP35/WM/ECO/C       | 10        | 20000      | 2750           | 2475       | 3500          | 73  | Ⓔ Ⓔ ⚡      | 1                    | 101                    |
|                                                       |                      |       |      | 21858 | F34/SP35/RS/WM/ECO/UPC  | 24        | 20000      | 2750           | 2475       | 3500          | 73  | Ⓔ Ⓔ ⚡      | 1                    | 101                    |
|                                                       |                      |       |      | 40372 | F34/SP41/RS/WM/ECO      | 24        | 20000      | 2750           | 2475       | 4100          | 72  | Ⓔ Ⓔ ⚡      | 1                    | 101                    |
|                                                       |                      |       |      | 25397 | F34/SP41/RS/WM/ECO/UPC  | 30        | 20000      | 2750           | 2475       | 4100          | 72  | Ⓔ Ⓔ ⚡      | 1                    | 101                    |
|                                                       |                      |       |      | 25391 | F34/CW/RS/WM/ECO/UPC    | 30        | 20000      | 2650           | 2280       | 4100          | 60  | Ⓔ ⚡        | 1                    | 101                    |
|                                                       |                      |       |      | 23485 | F34/CW/RS/WM/ECO/C 10PK | 10        | 20000      | 2650           | 2280       | 4100          | 60  | Ⓔ ⚡        | 1                    | 101                    |
|                                                       |                      |       |      | 25398 | F34/WW/RS/WM/ECO/UPC    | 30        | 20000      | 2700           | 2320       | 3000          | 52  | Ⓔ ⚡        | 1                    | 101 Warm White         |
| <b>MOD-U-LINE® WATT-MISER® U-TUBES</b>                |                      |       |      |       |                         |           |            |                |            |               |     |            |                      |                        |
| T12                                                   | Medium BiPin (G13)   | 35    | 22.5 | 14471 | F35/CW/U/6/WM/UPC       | 12        | 14000      | 2300           | 2100       | 4100          | 60  | Ⓔ ⚡        | 1                    | 102                    |
|                                                       |                      |       |      | 23383 | F35/CW/U6/WM/C          | 6         | 14000      | 2300           | 2100       | 4100          | 60  | Ⓔ ⚡        | 1                    | 102                    |
| <b>MOD-U-LINE® STANDARD U-TUBES</b>                   |                      |       |      |       |                         |           |            |                |            |               |     |            |                      |                        |
| T12                                                   | Medium BiPin (G13)   | 40    | 22.5 | 22050 | F40/SP35/U/6/UPC        | 12        | 14000      | 3050           | 2780       | 3500          | 73  | Ⓔ Ⓔ        |                      | 102                    |
|                                                       |                      |       |      | 25374 | F40/SCW/U6/UPC 6PK      | 6         | 14000      | 2800           | 2460       | 4100          | 75  | Ⓔ Ⓔ        |                      | 102 Super Cool White   |
| <b>T12 INSTANT START</b>                              |                      |       |      |       |                         |           |            |                |            |               |     |            |                      |                        |
| <b>4' T12</b>                                         |                      |       |      |       |                         |           |            |                |            |               |     |            |                      |                        |
| T12                                                   | Single Pin (Fa8)     | 40    | 48   | 20461 | F48T12/CW/UPC 6PK       | 24        | 9000       | 2875           | 2650       | 4100          | 60  |            |                      | 101                    |
| <b>8' T12</b>                                         |                      |       |      |       |                         |           |            |                |            |               |     |            |                      |                        |
| T12                                                   | Single Pin (Fa8)     | 75    | 96   | 10149 | F96T12/SP41/UPC         | 15        | 12000      | 6500           | 6110       | 4100          | 72  | Ⓔ Ⓔ        |                      | 101                    |

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| Bulb Base                                                  | Nominal Length Order | Watts in. | Code Description                   | Case Qty. | Rated Life | Lumens Initial | Lumens Mean | Color Temp. K | CRI | Footnotes | Warning and Cautions | Additional Information      |
|------------------------------------------------------------|----------------------|-----------|------------------------------------|-----------|------------|----------------|-------------|---------------|-----|-----------|----------------------|-----------------------------|
| <b>CONSUMER PRODUCTS (CONTINUED)</b>                       |                      |           |                                    |           |            |                |             |               |     |           |                      |                             |
| <b>T12 (CONTINUED)</b>                                     |                      |           |                                    |           |            |                |             |               |     |           |                      |                             |
| <b>8' T12 WATT-MISER® ENERGY SAVING LAMPS</b>              |                      |           |                                    |           |            |                |             |               |     |           |                      |                             |
| T12 Single Pin (Fa8)                                       | 60                   | 96        | <b>21856 F96T12/SP35/WM/UPC</b>    | 15        | 12000      | 5700           | 5360        | 3500          | 73  | Ⓢ ⚡       | 1                    | 101                         |
|                                                            |                      |           | <b>11217 F96T12/SP35/WM/C 10PK</b> | 10        | 12000      | 5700           | 5360        | 3500          | 73  | Ⓢ ⚡       | 1                    | 101                         |
|                                                            |                      |           | <b>25395 F96T12/SP41/WM/UPC</b>    | 15        | 12000      | 5700           | 5360        | 4100          | 72  | Ⓢ ⚡       | 1                    | 101                         |
|                                                            |                      |           | <b>21713 F96T12/CW/WM/UPC 10PK</b> | 10        | 12000      | 5500           | 5060        | 4100          | 60  | Ⓢ ⚡       | 1                    | 101                         |
|                                                            |                      |           | <b>25171 F96T12/UTCW/EE/C</b>      | 10        | 12000      | 5500           | 5060        | 4100          | 60  | Ⓢ ⚡       | 1                    | 101                         |
| <b>8' T12 ECOLUX® WATT-MISER® ENERGY SAVING LAMPS</b>      |                      |           |                                    |           |            |                |             |               |     |           |                      |                             |
| T12 Single Pin (Fa8)                                       | 60                   | 96        | <b>16816 F96T12/CW/WM/ECO</b>      | 15        | 12000      | 5500           | 5060        | 4100          | 60  | Ⓢ ⚡       | 1                    | 101                         |
| <b>T12 RAPID START</b>                                     |                      |           |                                    |           |            |                |             |               |     |           |                      |                             |
| T12 Medium BiPin (G13)                                     | 30                   | 36        | <b>39176 F30T12/CW/RS 6PK</b>      | 24        | 18000      | 2200           | 1910        | 4100          | 60  |           |                      | 101                         |
|                                                            |                      |           | <b>77119 F30T12/RS/KB/PM</b>       | 24        | 18000      | 2350           | 2120        | 3000          | 70  | Ⓢ         |                      | 104 Kitchen & Bath          |
| <b>T12 HIGH OUTPUT RAPID START RECESSED DOUBLE CONTACT</b> |                      |           |                                    |           |            |                |             |               |     |           |                      |                             |
| T12 R17d                                                   | 60                   | 48        | <b>27313 F48T12/CW/HO/UPC</b>      | 24        | 12000      | 4050           | 3520        | 4100          | 60  |           |                      | 101                         |
|                                                            | 95                   | 96        | <b>21714 F96T12/CW/HO/WM/UPC</b>   | 15        | 12000      | 8000           | 6960        | 4100          | 60  | Ⓢ ⚡       | 1                    | 101                         |
| <b>PREHEAT</b>                                             |                      |           |                                    |           |            |                |             |               |     |           |                      |                             |
| <b>T5</b>                                                  |                      |           |                                    |           |            |                |             |               |     |           |                      |                             |
| T5 Miniature BiPin (G5)                                    | 4                    | 6         | <b>15983 F4T5/CW CARD</b>          | 10        | 5000       | 135            | 100         | 4100          | 60  |           |                      | 101 Preheat                 |
|                                                            | 6                    | 9         | <b>15986 F6T5/CW CARD</b>          | 10        | 5000       | 295            | 235         | 4100          | 60  |           |                      | 101 Preheat                 |
|                                                            | 8                    | 12        | <b>15987 F8T5/CW CARD</b>          | 10        | 5000       | 400            | 320         | 4100          | 60  |           |                      | 101 Preheat                 |
|                                                            |                      |           | <b>25425 F8T5/WW/CARD</b>          | 5         | 5000       | 410            | 330         | 3000          | 52  |           |                      | 101 Preheat, Warm White     |
|                                                            | 13                   | 21        | <b>25426 F13T5/WW/CARD</b>         | 5         | 5000       | 870            | 720         | 3000          | 52  |           |                      | 101 Preheat, Warm White     |
| <b>T8</b>                                                  |                      |           |                                    |           |            |                |             |               |     |           |                      |                             |
| T8 Medium BiPin (G13)                                      | 15                   | 18        | <b>13968 F15T8/SUN 6PK</b>         | 24        | 7500       | 620            | 525         | 5000          | 90  | Ⓢ         |                      | 101 Preheat, Sunlight       |
|                                                            | 30                   | 36        | <b>22747 F30T8/KB 6PK</b>          | 24        | 7500       | 2125           | 1910        | 3000          | 70  | Ⓢ         |                      | 104 Preheat, Kitchen & Bath |
|                                                            | 15                   | 18        | <b>46982 F15T12/KB-TP</b>          | 24        | 9000       | 785            | 730         | 3000          | 70  | Ⓢ         |                      | 104 Preheat, Kitchen & Bath |
|                                                            |                      |           | <b>46981 F15T8/KB-TP</b>           | 24        | 7500       | 940            | 850         | 3000          | 70  | Ⓢ         |                      | 104 Preheat, Kitchen & Bath |
|                                                            |                      |           | <b>21326 F15T8/KB/6PK</b>          | 24        | 7500       | 940            | 850         | 3000          | 70  | Ⓢ         |                      | 104 Preheat, Kitchen & Bath |
|                                                            |                      |           | <b>10143 F15T8/CW/6PK</b>          | 24        | 7500       | 825            | 725         | 4100          | 60  | Ⓢ         |                      | 101 Preheat                 |
|                                                            |                      |           | <b>46980 F15T8/SUN-TP</b>          | 24        | 7500       | 620            | 525         | 5000          | 90  | Ⓢ         |                      | 101 Preheat, Sunlight       |
| <b>T12</b>                                                 |                      |           |                                    |           |            |                |             |               |     |           |                      |                             |
| T12 Medium BiPin (G13)                                     | 14                   | 15        | <b>10117 F14T12/CW 6PK</b>         | 24        | 9000       | 650            | 550         | 4100          | 60  |           |                      | 101 Preheat                 |
|                                                            |                      |           | <b>22979 F14T12/KB 6PK</b>         | 24        | 9000       | 700            | 650         | 3000          | 70  | Ⓢ         |                      | 104 Preheat, Kitchen & Bath |
|                                                            | 15                   | 18        | <b>10183 F15T12/CW 6PK</b>         | 24        | 9000       | 760            | 685         | 4100          | 60  |           |                      | 104 Preheat, Kitchen & Bath |
|                                                            |                      |           | <b>22745 F15T12/KB 6PK</b>         | 24        | 9000       | 785            | 730         | 3000          | 70  |           |                      | 104 Preheat, Kitchen & Bath |
|                                                            | 20                   | 24        | <b>80046 F20T12/CW/ECO/6PK</b>     | 24        | 9000       | 1200           | 1150        | 4100          | 60  |           |                      | 101 Preheat                 |
|                                                            |                      |           | <b>25575 F20T12/D/ECO/UPC</b>      | 24        | 9000       | 1025           | 945         | 6500          | 75  | Ⓢ         |                      | 101 Preheat, Daylight       |
|                                                            |                      |           | <b>21325 F20T12/KB/ECO/6PK</b>     | 24        | 9000       | 1275           | 1200        | 3000          | 70  | Ⓢ         |                      | 104 Preheat, Kitchen & Bath |
|                                                            |                      |           | <b>14419 F20T12/SUN/ECO/6PK</b>    | 24        | 9000       | 875            | 790         | 5000          | 90  | Ⓢ         |                      | 101 Preheat, Sunlight       |
|                                                            |                      |           | <b>25577 F20T12/WW/ECO/UPC</b>     | 24        | 9000       | 1250           | 1150        | 3000          | 52  |           |                      | 101 Preheat, Warm White     |
|                                                            |                      |           | <b>10231 F20T12/B 6PK</b>          | 24        | 9000       | 450            | 330         |               |     |           |                      | 101 Preheat                 |
|                                                            |                      |           | <b>10233 F20T12/G 6PK</b>          | 24        | 9000       | 1575           | 957         |               |     |           |                      | 101 Preheat                 |
|                                                            |                      |           | <b>46914 F20T12/KB/ECO-TP</b>      | 24        | 9000       | 1275           | 1200        | 3000          | 70  | Ⓢ         |                      | 104 Preheat, Kitchen & Bath |
|                                                            |                      |           | <b>46826 F20T12/SUN/ECO-TP</b>     | 24        | 9000       | 875            | 790         | 5000          | 90  | Ⓢ         |                      | 101 Preheat, Sunlight       |
|                                                            | 30                   | 36        | <b>46917 F30T12/KB/ECO-TP</b>      | 24        | 18000      | 2350           | 2120        | 3000          | 70  | Ⓢ         |                      | 104 Preheat, Kitchen & Bath |

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| Bulb Base                             | Nominal Length Order | Watts in. | Code  | Description           | Case Qty. | Rated Life | Lumens Initial Mean | Color Temp. K | CRI  | Foot-notes | Warning and Cautions | Additional Information                                     |
|---------------------------------------|----------------------|-----------|-------|-----------------------|-----------|------------|---------------------|---------------|------|------------|----------------------|------------------------------------------------------------|
| <b>CONSUMER PRODUCTS (CONTINUED)</b>  |                      |           |       |                       |           |            |                     |               |      |            |                      |                                                            |
| <b>BLACKLIGHT</b>                     |                      |           |       |                       |           |            |                     |               |      |            |                      |                                                            |
| T8 Medium BiPin (G13)                 | 15                   | 18        | 35884 | F15T8/BL 6PK          | 24        | 7500       |                     |               |      |            | 8                    | 105 Blacklight, UVA Source                                 |
| T12                                   | 20                   | 24        | 10244 | F20T12/BL 6PK         | 24        | 9000       |                     |               |      |            | 8                    | 105 Blacklight, UVA Source                                 |
|                                       | 40                   | 48        | 10526 | F40BL 6PK             | 24        | 20000      |                     |               |      |            | 8                    | 105 Blacklight, UVA Source                                 |
| <b>BLACKLIGHT BLUE</b>                |                      |           |       |                       |           |            |                     |               |      |            |                      |                                                            |
| T8 Medium BiPin (G13)                 | 15                   | 18        | 35885 | F15T8/BLB 6PK         | 24        | 7500       |                     |               |      |            |                      | 101 Blacklight Blue, UVA Source, Integral Dark Blue Filter |
| T12 Medium BiPin (G13)                | 20                   | 24        | 34747 | F20T12/BLB 6PK        | 24        | 9000       |                     |               |      |            |                      | 101 Blacklight Blue, UVA Source, Integral Dark Blue Filter |
| T9 4 Pin (G10q)                       | 22                   | 8.25      | 25665 | FC8T9/BLB             | 6         | 12000      |                     |               |      |            |                      | 101 Blacklight Blue, UVA Source, Integral Dark Blue Filter |
| T12 Medium BiPin (G13)                | 40                   | 48        | 10531 | F40BLB 6PK            | 24        | 20000      |                     |               |      |            |                      | 101 Blacklight Blue, UVA Source, Integral Dark Blue Filter |
| <b>T9 CIRCLINE®</b>                   |                      |           |       |                       |           |            |                     |               |      |            |                      |                                                            |
| T9 4 Pin (G10q)                       | 20                   | 6.5       | 42732 | FC6T9/CW              | 12        | 12000      | 800                 | 560           | 4100 | 60         |                      | 101                                                        |
|                                       | 22                   | 8.25      | 33774 | FC8T9/CW              | 12        | 12000      | 1100                | 825           | 4100 | 60         |                      | 101                                                        |
|                                       |                      |           | 11026 | FC8T9/D               | 12        | 12000      | 925                 | 690           | 6500 | 75         |                      | 101 Daylight                                               |
|                                       |                      |           | 11084 | FC8T9/KB              | 6         | 12000      | 1400                | 1120          | 3000 | 82         |                      | 104 Kitchen & Bath                                         |
|                                       | 32                   | 12        | 33890 | FC12T9/CW             | 12        | 12000      | 1950                | 1460          | 4100 | 60         |                      | 101                                                        |
|                                       |                      |           | 11039 | FC12T9/D              | 12        | 12000      | 1675                | 1260          | 6500 | 75         |                      | 101 Daylight                                               |
|                                       |                      |           | 11085 | FC12T9/KB             | 6         | 12000      | 2400                | 1920          | 3000 | 82         |                      | 104 Kitchen & Bath                                         |
|                                       | 40                   | 16        | 33893 | FC16T9/CW             | 12        | 12000      | 2700                | 2030          | 4100 | 60         |                      | 101                                                        |
|                                       |                      |           | 11052 | FC16T9/D              | 12        | 12000      | 2250                | 1690          | 6500 | 75         |                      | 101 Daylight                                               |
| <b>COVRGUARD® SHATTER RESISTANT</b>   |                      |           |       |                       |           |            |                     |               |      |            |                      |                                                            |
| <b>T8 PREHEAT</b>                     |                      |           |       |                       |           |            |                     |               |      |            |                      |                                                            |
| T8 Medium BiPin (G13)                 | 15                   | 18        | 46627 | F15T8/KB/CVG/UPC      | 24        | 7500       | 910                 | 825           | 3000 | 70         |                      | 11, 13 104 Kitchen & Bath                                  |
| <b>T12 RAPID START</b>                |                      |           |       |                       |           |            |                     |               |      |            |                      |                                                            |
| T12 Medium BiPin (G13)                | 25                   | 48        | 46625 | F48"/25W/UTSL/CVG/UPC | 30        | 12000      | 1800                | 1620          | 4100 | 60         |                      | 11, 13 103                                                 |
|                                       | 40                   | 48        | 80995 | F40/KB/ECO/CVG/UPC    | 24        | 20000      | 3290                | 2990          | 3000 | 82         |                      | 11, 13 108 Kitchen & Bath                                  |
|                                       |                      |           | 80999 | F40/CW/ECO/CVG/UPC    | 30        | 20000      | 2930                | 2370          | 4100 | 60         |                      | 11, 13 103                                                 |
| <b>T12 RAPID START WATT-MISER®</b>    |                      |           |       |                       |           |            |                     |               |      |            |                      |                                                            |
| T12 Medium BiPin (G13)                | 34                   | 48        | 80997 | F34/CW/WM/ECO/CVG/UPC | 30        | 20000      | 2570                | 2210          | 4100 | 60         |                      | 1, 11, 13 103                                              |
| <b>T12 PREHEAT</b>                    |                      |           |       |                       |           |            |                     |               |      |            |                      |                                                            |
| T12 Medium BiPin (G13)                | 20                   | 24        | 80984 | F20T12/CW/ECO/CVG/UPC | 24        | 9000       | 1160                | 1110          | 4100 | 60         |                      | 11, 13 103                                                 |
|                                       |                      |           | 80985 | F20T12/KB/ECO/CVG/UPC | 24        | 9000       | 1230                | 1160          | 3000 | 70         |                      | 11, 13 108 Kitchen & Bath                                  |
| <b>T12 INSTANT START</b>              |                      |           |       |                       |           |            |                     |               |      |            |                      |                                                            |
| T12 Single Pin (Fa8)                  | 60                   | 96        | 41002 | F96T12/CW/WM/CVG/UPC  | 15        | 12000      | 5330                | 4910          | 4100 | 60         |                      | 1, 11, 13 103 Watt-Miser®                                  |
| <b>PLANT AND AQUARIUM / TERRARIUM</b> |                      |           |       |                       |           |            |                     |               |      |            |                      |                                                            |
| T8 Medium BiPin (G13)                 | 14                   | 15        | 41373 | F14T8/AR/FR 6PK       | 24        | 7500       | 360                 | 4000          | 92   |            |                      | 104 Aquarium Lamp Freshwater                               |
|                                       |                      |           | 40903 | F14T8/AR/FS/6PK       | 24        | 7500       | 550                 | 9325          | 64   |            |                      | 104 Aquarium Lamp Fresh and Saltwater                      |
|                                       |                      |           | 41375 | F14T8/AR/SA 6PK       | 24        | 7500       | 190                 | 10000         | 62   |            |                      | 104 Aquarium Lamp Saltwater                                |
|                                       |                      |           | 41377 | F14T8/SR 6PK          | 24        | 7500       | 565                 | 5000          | 90   |            |                      | 104 Aquarium/Terrarium Lamp                                |
|                                       | 15                   | 18        | 22907 | F15T8/AR/FR 6PK       | 24        | 7500       | 425                 | 4000          | 92   |            |                      | 104 Aquarium Lamp Freshwater                               |
|                                       |                      |           | 22910 | F15T8/AR/FS 6PK       | 24        | 7500       | 675                 | 9325          | 64   |            |                      | 104 Aquarium Lamp Fresh and Saltwater                      |
|                                       |                      |           | 22920 | F15T8/AR/SA 6PK       | 24        | 7500       | 210                 | 10000         | 62   |            |                      | 104 Aquarium Lamp Saltwater                                |
|                                       |                      |           | 49892 | F15T8/PL/AQ 6PK       | 24        | 7500       | 510                 | 3100          | 90   |            |                      | 104 Plant & Aquarium Wide Spectrum                         |
|                                       |                      |           | 22904 | F15T8/SR 6PK          | 24        | 7500       | 620                 | 5000          | 90   |            |                      | 104 Aquarium/Terrarium Lamp                                |



| Bulb Base                                  | Nominal Length Order |       |                  |             | Case Qty.        | Rated Life    |                  | Lumens  |       | Color Temp.                                                                         |                                                                                     | Foot-<br>notes                                                                      | Warning and Cautions                                                                |                                                                                     | Additional Information                                                              |                    |
|--------------------------------------------|----------------------|-------|------------------|-------------|------------------|---------------|------------------|---------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|
|                                            | Watts                | in.   | Code             | Description |                  | 3hr/<br>Start | 12hr/<br>Start   | Initial | Mean  | K                                                                                   | CRI                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                    |
| CONSUMER PRODUCTS (CONTINUED)              |                      |       |                  |             |                  |               |                  |         |       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                    |
| PLANT AND AQUARIUM / TERRARIUM (CONTINUED) |                      |       |                  |             |                  |               |                  |         |       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                    |
| T12                                        | Medium BiPin (G13)   | 20    | 24               | 22908       | F20T12/AR/FR 6PK | 24            | 9000             |         | 600   | 4000                                                                                | 92                                                                                  |  | 104                                                                                 | Aquarium Lamp                                                                       | Freshwater                                                                          |                    |
|                                            |                      |       |                  | 22911       | F20T12/AR/FS 6PK | 24            | 9000             |         | 950   | 9325                                                                                | 64                                                                                  |                                                                                     | 104                                                                                 | Aquarium Lamp                                                                       | Fresh and Saltwater                                                                 |                    |
|                                            |                      |       |                  | 22922       | F20T12/AR/SA 6PK | 24            | 9000             |         | 270   | 10000                                                                               | 62                                                                                  |                                                                                     | 104                                                                                 | Aquarium Lamp                                                                       | Saltwater                                                                           |                    |
|                                            |                      |       |                  | 49891       | F20T12/PL/AQ 6PK | 24            | 9000             |         | 750   | 3100                                                                                | 90                                                                                  |                                                                                     |  | 104                                                                                 | Plant & Aquarium                                                                    | Wide Spectrum      |
|                                            |                      |       |                  | 22905       | F20T12/SR 6PK    | 24            | 9000             |         | 875   | 5000                                                                                | 90                                                                                  |                                                                                     |                                                                                     |  | 104                                                                                 | Aquarium/Terrarium |
| T8                                         | Medium BiPin (G13)   | 30    | 36               | 41374       | F30T8/AR/FR 6PK  | 24            | 9000             |         | 630   | 4000                                                                                | 92                                                                                  |  | 104                                                                                 | Aquarium Lamp                                                                       | Freshwater                                                                          |                    |
|                                            |                      |       |                  | 40904       | F30T8/AR/FS 6PK  | 24            | 9000             |         | 1400  | 9235                                                                                | 64                                                                                  |                                                                                     | 104                                                                                 | Aquarium Lamp                                                                       | Fresh and Saltwater                                                                 |                    |
|                                            |                      |       |                  | 41376       | F30T8/AR/SA 6PK  | 24            | 9000             |         | 315   | 10000                                                                               | 62                                                                                  |                                                                                     | 104                                                                                 | Aquarium Lamp                                                                       | Saltwater                                                                           |                    |
| T12                                        | Medium BiPin (G13)   | 30    | 36               | 41378       | F30T12/SR 6PK    | 24            | 18000            |         | 1100  | 5000                                                                                | 90                                                                                  |  | 104                                                                                 | Plant & Aquarium                                                                    | Wide Spectrum                                                                       |                    |
|                                            |                      |       |                  | 40          | 48               | 22909         | F40T12/AR/FR 6PK | 24      | 9000  |                                                                                     | 1425                                                                                |                                                                                     | 4000                                                                                | 92                                                                                  |  | 104                |
|                                            |                      | 22914 | F40T12/AR/FS 6PK | 24          |                  | 9000          |                  | 2350    | 9325  | 64                                                                                  | 104                                                                                 | Aquarium Lamp                                                                       | Fresh and Saltwater                                                                 |                                                                                     |                                                                                     |                    |
|                                            |                      | 22923 | F40T12/AR/SA 6PK | 24          |                  | 9000          |                  | 700     | 10000 | 62                                                                                  | 104                                                                                 | Aquarium Lamp                                                                       | Saltwater                                                                           |                                                                                     |                                                                                     |                    |
|                                            |                      | 49893 | F40PL/AQ 6PK     | 24          |                  | 20000         |                  | 1900    | 3100  | 90                                                                                  |  | 104                                                                                 | Plant & Aquarium                                                                    | Wide Spectrum                                                                       |                                                                                     |                    |
|                                            |                      | 22906 | F40T12/SR 6PK    | 24          | 20000            |               | 2250             | 5000    | 90    |  |                                                                                     | 104                                                                                 | Aquarium/Terrarium                                                                  | Lamp                                                                                |                                                                                     |                    |

## OPERATING NOTES

### GENERAL OPERATION

GE fluorescent lamps should be used only with auxiliary equipment designed to produce proper characteristics. Specifications for auxiliary equipment are covered by ANSI. Specifications for auxiliary equipment not included in ANSI Standards are available from GE Lighting.

### FACTORS AFFECTING LAMP PERFORMANCE

#### Ballasts

The three basic types of ballasts for fluorescent lamps are Preheat (PH), Instant Start (IS), and Rapid Start (RS). In general, lamps identified as preheat, rapid start or instant start should be used only on the corresponding ballast type. Electronic ballasts are presently available in both instant start and rapid start designs. Ballasts that operate with output currents below recommended levels, either by design or poor performance, will reduce fluorescent lamp life.

**Application** - Choosing the appropriate ballast for an application can have an impact on lamp life. For example, T8 lamps with electronic Instant Start ballasts should not be used in applications with electronic controls (such as occupancy sensors). The frequent switching will significantly reduce lamp life. Use only programmed rapid start ballasts in these situations.

**Operating Characteristics** - Fluorescent lamp life is strongly affected by the ballast. ANSI has set standards for fluorescent ballasts that will ensure proper operation of fluorescent lamps. Ballast characteristics that have a significant effect on lamp life are Current Crest Factor, Starting Time, Cathode Voltage and Open Circuit Voltage.

**Ballast Factor** - This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast. For example, a ballast having a ballast factor of 0.93 will result in the lamp emitting 93% of its rated lumen output.

**High Frequency** - All fluorescent lamps operate more efficiently when driven at frequencies greater than 15 kHz. Four-foot fluorescent lamps operate approximately 10% more efficiently, while eight-foot lamps improve efficiency by about 5%. This efficiency improvement is one reason for the popularity of electronic ballasts.

#### Temperature

Light output and watts of a fluorescent lamp are affected by the ambient temperature, and by drafts. Most fluorescent lamps reach their maximum light output at room temperatures or at "luminaire temperatures." All-Weather fluorescent lamps are designed with jackets that improve performance in low temperature environments.

#### Luminaire

The design of the lighting fixture (luminaire) affects the ambient temperature in which the fluorescent lamps will be operating. A fixture that operates too cool or warm will result in lower light output from the lamps and reduce illumination levels.

#### Starting

The life of a fluorescent lamp is affected by the number of times the lamp is started. Starting results in shorter lamp life, while continuous operation will provide the longest lamp life. All fluorescent lamps, except where noted, have life ratings based on 3 hours per start.



## GENERAL INFORMATION

### LUMENS

**Nominal Initial Lumens** refer to the nominal light output of the lamp after 100 hours of operation at 25° C. **Nominal Mean Lumens** refer to the nominal light output of the lamp at 40% of its rated life. Some values are based on engineering calculations derived from extrapolation of initial measured lumens.

A self-ballasted lamp is measured using its integral ballast. Lamps without an integral ballast are measured using reference ballasts.

Lumens produced by lamps operated on commercial ballasts may not be equivalent to reference ballast ratings. For lighting design calculations, refer to the ballast manufacturer's published data for the appropriate "Ballast Factor".

### NOMINAL WATTS

Wattage is classified in accordance with American National Standards Institute standards and may not be the same as the wattage run on a reference ballast. The nominal wattage as defined by ANSI may vary from the listed wattage. Watts consumed by lamps operated on commercial ballasts may not be equivalent to reference ballast ratings. The watts shown for self ballasted lamps are nominal system watts.

### RATED LIFE

The rated life (hours) is the approximate median life when lamps are operated for three hours per start under laboratory conditions using ballasts which meet industry standards or GE Lighting specifications where no industry standards exist. Rated life for self-ballasted lamps is the approximate median life when operated for three hours per start under laboratory conditions. Some lamps are rated at 12 hours per start where noted.

## FOOTNOTES

### # Footnote

- 1 Watt-Miser®, Watt-Miser® Plus, F28T8/UMX and Energy Efficient (/EE) lamps are intended for use where ambient temperatures are 60°F (16°C) or higher and where the lamp surface is protected from strong air drafts. Failure to protect the lamp surface may result in reduced life, poor starting or erratic operation, such as flickering or spiraling. These lamps are not recommended for use with dimming systems. All T12 Watt-Miser® lamps are intended for use on two-lamp, indoor, lead, high power factor ballasts and are not recommended for use with dimming or reduced current systems. The use of T12 Watt-Miser® lamps on single lamp ballasts may shorten lamp life. T12 Rapid Start Watt-Miser® lamps are intended for use only with Rapid Start Ballasts. F34 Rapid Start Watt-Miser® lamps on high frequency electronic systems may display erratic starting before end of life. T8 Watt-Miser® lamps and F28/UMX lamps are intended for use only with instant start ballasts. They are, however, also approved for use on GE UltraStart programmed rapid start ballasts.
- 2 Reprographic Peak Emission 417nm. 2000 hours useful life; burning hours longer.
- 3 F40T17/CW/IS lamps are for use only in fixtures equipped with instant start ballasts.
- 4 Because Power Groove® and Very High Output lamps are most used in commercial applications, the life rating is based on 12 hrs. per start.
- 6 Bare "Cold Temperature" lamps (as indicated by /CT) and "All Temperature" lamps are designed for use where ambient temperatures drop below 60°F (16°C).
- 7 Performance data based on engineering estimates.
- 8 CAUTION: Risk Group 1 (Low Risk): UV emitted from this lamp. Skin or eye irritation could result. Minimize exposure.
- 9 WARNING: Risk Group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result.
- 10 Shoplites are not recommended to be used on F40 full light output ballasts. Life will be reduced by approximately 50%.
- 11 Lumen rating based on approximate 3% reduction in light output with CovRguard® sleeving.
- 12 Do not use CovRguard® HO lamps in watertight or airtight fixtures.
- 13 Blocks 100% of UV-B and UV-C. Blocks from 75 to 99% of UV-A, depending on lamp type.
- 14 Life rating is based on 12 hrs. per start.
- 15 Lumen rating based on approximate 3% reduction in light output with jacket.
- 16 Life rating is based on UV maintenance curve and is measured at 80% of initial (100hr) UVC output.
- 17 Jacketed "Cold Temperature" lamps (as indicated by -CT) are designed for use where ambient temperatures do not rise above 32°F (0°C).
- 18 T8 lamps run on Instant Start ballasts should not be used in conjunction with electronic controls such as occupancy sensors. The frequent switching will significantly impact lamp life and void any warranties. Programmed Rapid Start ballasts such as GE's UltraStart ballast should be used in these situations.
- 19 T5 Starcoat® Ecolux® lamp initial and mean lumen ratings are taken at 95°F (35°C)

### Performance Notes:

#### T8 Lamps:

- Rated life for F32T8, F32T8/XL or SXL, and F32T8/HL/XL lamps is rated life on **rapid start and instant start** circuits. See product section for lamp specific ratings.
- Rated life for F32T8/WM and F32T8/WM/XL and the F28T8/UMX lamps is rated life on **instant start** circuits.
- Rated life for F17T8 and F25T8 (including XL versions), as well as, the F40T8 is rated life on **rapid start** circuits. Rated life for these linear lamps on instant start electronic circuits is reduced by 25%.

**T12 Lamps:** Life of 4' T12 lamps on single-lamp, rapid start ballasts may be reduced.

### COLOR TEMPERATURE / CHROMATICITY

Approximate color temperature of fluorescent is measured using industry standard methods and is based on a nominal 40-watt source. Fluorescent sources operating at different lamp currents will have slightly shifted color appearances when compared to the corresponding 40-watt sources.

### SCOTOPIC/PHOTOPIC RATIO

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic Vision) and cones to yellow light (Photopic Vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. S/P is calculated as the ratio of scotopic lumens to photopic lumens, for the light source, on an ANSI reference ballast. Cooler sources (higher color temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

### SCOTOPIC/PHOTOPIC (S/P) RATIO:

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic vision) and cones to yellow light (Photopic vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. Cooler sources (higher color temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

| T5    | S/P Ratio | F17 and F25T8 | S/P Ratio | F32 and F32T8/WM   | S/P Ratio |
|-------|-----------|---------------|-----------|--------------------|-----------|
| 830   | 1.3       | SP30          | 1.3       | SP30               | 1.3       |
| 835   | 1.5       | SP35          | 1.4       | SP35               | 1.4       |
| 841   | 1.7       | SP41          | 1.6       | SP41               | 1.6       |
| 850   | 1.9       | F17 and F25T8 | S/P Ratio | SP50               | 1.9       |
| 865   | 2.2       | SPX30         | 1.3       | SP65               | 2.1       |
| F28T8 | S/P Ratio | SPX35         | 1.5       | F32T8 and F32T8/HL | S/P Ratio |
| SP30  | 1.3       | SPX41         | 1.8       | SPX30              | 1.3       |
| SP35  | 1.5       | SPX50         | 2.0       | SPX35              | 1.5       |
| SP41  | 1.8       | SPX65         | 2.3       | SPX41              | 1.8       |
| SP50  | 2.0       |               |           | SPX50              | 2.0       |
|       |           |               |           | SPX65              | 2.3       |



## WARNING AND CAUTION NOTICES

### 101

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal

#### ⚠ CAUTION

##### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

### 102

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal

#### ⚠ CAUTION

##### Improper handling may cause breakage

- Do not carry lamp by bracket

##### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

### 103

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal

### 104

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal
- Avoid direct water/liquid contact

#### ⚠ CAUTION

##### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

### 105

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal

#### ⚠ CAUTION

##### Lamp emits UV radiation which may cause eye/skin irritation. RG-1

- Minimize exposure

##### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

### 106

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal

##### Lamp emits UV radiation which may cause eye/skin injury. RG-3

- Avoid exposure of eyes and skin to unshielded lamp

#### ⚠ CAUTION

##### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

### 107

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not open - there are no servicable parts inside
- Do not drill or cut into plastic parts
- Avoid direct water/liquid contact
- Fully insert plug
- Use indoors only

#### ⚠ CAUTION

##### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Lamp is not replaceable. Do not attempt to remove lamp from fixture
- Use in permanent installation only — not for portable use

##### Unit will fail if not installed properly

- Follow installation instructions

### 108

#### ⚠ WARNING

##### Risk of electric shock

- Turn power off before inspection, installation or removal
- Avoid direct water/liquid contact



## FLUORESCENT LAMP CROSS REFERENCE

| GE<br>Description                                | Osram Sylvania<br>Description | Philips<br>Description |
|--------------------------------------------------|-------------------------------|------------------------|
| <b>ORDER THIS GE LAMP IF YOU USE THESE LAMPS</b> |                               |                        |
| <b>APPLIANCE</b>                                 |                               |                        |
| F24T8/CW/4                                       | F18T8/CW/K/24                 | F18T8/CW/24            |
| F26T8/CW/4 (19W)                                 | F18T8/CW/K/26                 | F16T8/CW/26 (16W)      |
| F28T8/CW/4 (19W)                                 | F18T8/CW/K/28                 | F17T8/CW/28 (17W)      |
| F30T8/CW/4                                       | F18T8/CW/K/30                 | F18T8/CW/30 (18W)      |
| F25T12/CW/33                                     | F25T12/CW/33                  | —                      |
| <b>ECOLUX® T8 SP</b>                             |                               |                        |
| F17T8/SP30/ECO                                   | OCTRON® F017/730/ECO          | TL70 F17T8/TL730/ALTO  |
| F17T8/SP35/ECO                                   | F017/735/ECO                  | F17T8/TL735/ALTO       |
| F17T8/SP41/ECO                                   | F017/741/ECO                  | F17T8/TL741/ALTO       |
| F25T8/SP30/ECO                                   | F025/730/ECO                  | F25T8/TL730/ALTO       |
| F25T8/SP35/ECO                                   | F025/735/ECO                  | F25T8/TL735/ALTO       |
| F25T8/SP41/ECO                                   | F025/741/ECO                  | F25T8/TL741/ALTO       |
| F32T8/SP30/ECO                                   | F032/730/ECO                  | F32T8/TL730/ALTO       |
| F32T8/SP35/ECO                                   | F032/735/ECO                  | F32T8/TL735/ALTO       |
| F32T8/SP41/ECO                                   | F032/741/ECO                  | F32T8/TL741/ALTO       |
| F32T8/SP50/ECO                                   | F032/750/ECO                  | F32T8/TL750/ALTO       |
| F32T8/SP65/ECO                                   | F032/765/ECO                  | —                      |
| <b>ECOLUX® T8 SPX</b>                            |                               |                        |
| F17T8/SPX30/ECO                                  | OCTRON® F017/830/ECO          | TL80 F17T8/TL830/ALTO  |
| F17T8/SPX35/ECO                                  | F017/835/ECO                  | F17T8/TL835/ALTO       |
| F17T8/SPX41/ECO                                  | F017/841/ECO                  | F17T8/TL841/ALTO       |
| F25T8/SPX30/ECO                                  | F025/830/ECO                  | F25T8/TL830/ALTO       |
| F25T8/SPX35/ECO                                  | F025/835/ECO                  | F25T8/TL835/ALTO       |
| F25T8/SPX41/ECO                                  | F025/841/ECO                  | F25T8/TL841/ALTO       |
| F32T8/SPX30/ECO                                  | F032/830/ECO                  | F32T8/TL830/ALTO       |
| F32T8/SPX35/ECO                                  | F032/835/ECO                  | F32T8/TL835/ALTO       |
| F32T8/SPX41/ECO                                  | F032/841/ECO                  | F32T8/TL841/ALTO       |
| F32T8/SPX50/ECO                                  | F032/850/ECO                  | F32T8/TL850/ALTO       |
| <b>ECO EXTRA-LIFE T8 SP</b>                      |                               |                        |
| F17T8/XL/SP30/ECO                                | F017/730/XP/ECO               | —                      |
| F17T8/XL/SP35/ECO                                | F017/735/XP/ECO               | —                      |
| F17T8/XL/SP41/ECO                                | F017/741/XP/ECO               | —                      |
| F25T8/XL/SP30/ECO                                | F025/730/XP/ECO               | —                      |
| F25T8/XL/SP35/ECO                                | F025/735/XP/ECO               | —                      |
| F25T8/XL/SP41/ECO                                | F025/741/XP/ECO               | —                      |
| F32T8/XL/SP30/ECO                                | F032/730/XP/ECO               | F32T8/TL730 PLUS/ALTO  |
| F32T8/XL/SP35/ECO                                | F032/735/XP/ECO               | F32T8/TL735 PLUS/ALTO  |
| F32T8/XL/SP41/ECO                                | F032/741/XP/ECO               | F32T8/TL741 PLUS/ALTO  |

| GE<br>Description                                | Osram Sylvania<br>Description | Philips<br>Description  |
|--------------------------------------------------|-------------------------------|-------------------------|
| <b>ORDER THIS GE LAMP IF YOU USE THESE LAMPS</b> |                               |                         |
| <b>ECO EXTRA-LIFE T8 SPX XP/ECO PLUS/ALTO</b>    |                               |                         |
| F17T8/XL/SPX30/ECO                               | F017/830/XP/ECO               | F17T8/TL830/PLUS/ALTO   |
| F17T8/XL/SPX35/ECO                               | F017/835/XP/ECO               | F17T8/TL835/PLUS/ALTO   |
| F17T8/XL/SPX41/ECO                               | F017/841/XP/ECO               | F17T8/TL841/PLUS/ALTO   |
| F17T8/XL/SPX50/ECO                               | F017/850/XP/ECO               | F17T8/TL850/PLUS/ALTO   |
| F17T8/XL/SPX65/ECO                               | F017/865/XP/ECO               | F17T8/TL865/PLUS/ALTO   |
| F25T8/XL/SPX30/ECO                               | F025/830/XP/ECO               | F25T8/TL830/PLUS/ALTO   |
| F25T8/XL/SPX35/ECO                               | F025/835/XP/ECO               | F25T8/TL835/PLUS/ALTO   |
| F25T8/XL/SPX41/ECO                               | F025/841/XP/ECO               | F25T8/TL841/PLUS/ALTO   |
| F25T8/XL/SPX50/ECO                               | F025/850/XP/ECO               | F25T8/TL850/PLUS/ALTO   |
| F25T8/XL/SPX65/ECO                               | F025/865/XP/ECO               | F25T8/TL865/PLUS/ALTO   |
| F32T8/XL/SPX30/ECO                               | F032/830/XP/ECO               | F32T8/TL830 PLUS/ALTO   |
| F32T8/XL/SPX35/ECO                               | F032/841/XP/ECO               | F32T8/TL835 PLUS/ALTO   |
| F32T8/XL/SPX41/ECO                               | F032/835/XP/ECO               | F32T8/TL841 PLUS/ALTO   |
| F32T8/XL/SPX50/ECO                               | F032/850/XP/ECO               | F32T8/TL850 PLUS/ALTO   |
| F32T8/XL/SPX65/ECO                               | F032/865/XP/ECO               | F32T8/TL865 PLUS/ALTO   |
| <b>4' T8 HIGH LUMEN (HL)</b>                     |                               |                         |
| F32T8/XL/SPX30/HL/ECO                            | F032/830/XPS/ALTO             | F32T8/ADV830/ALTO       |
| F32T8/XL/SPX35/HL/ECO                            | F032/835/XPS/ALTO             | F32T8/ADV835/ALTO       |
| F32T8/XL/SPX41/HL/ECO                            | F032/841/XPS/ALTO             | F32T8/ADV841/ALTO       |
| F32T8/XL/SPX50/HL/ECO                            | F032/850/XPS/ALTO             | F32T8/ADV850/ALTO       |
| <b>4' T8 WATT-MISER®</b>                         |                               |                         |
| F32T8/SP30/IS/WM/ECO                             | F032/730/SS/ECO               | —                       |
| F32T8/SP35/IS/WM/ECO                             | F032/735/SS/ECO               | —                       |
| F32T8/SP41/IS/WM/ECO                             | F032/741/SS/ECO               | —                       |
| F32T8/SP50/IS/WM/ECO                             | F032/750/SS/ECO               | —                       |
| <b>4' T8 WATT-MISER® EXTRA-LIFE</b>              |                               |                         |
| F32T8/XL/SP30/WM/ECO                             | —                             | F32T8/ADV830/EW/LL/ALTO |
| F32T8/XL/SP35/WM/ECO                             | —                             | F32T8/ADV835/EW/LL/ALTO |
| F32T8/XL/SP41/WM/ECO                             | —                             | F32T8/ADV841/EW/LL/ALTO |
| F32T8/XL/SP50/WM/ECO                             | —                             | F32T8/ADV850/EW/LL/ALTO |
| <b>4' T8 ULTRAMAX™ 28W</b>                       |                               |                         |
| F28T8/SP30/UMX/ECO                               | F028/830/XP/SS/ECO            | —                       |
| F28T8/SP30/UMX/ECO                               | F028/835/XP/SS/ECO            | —                       |
| F28T8/SP30/UMX/ECO                               | F028/841/XP/SS/ECO            | —                       |
| <b>4' T8 VERY LONG LIFE (SXL)</b>                |                               |                         |
| F32T8/SXL/SP30/ECO                               | F032/830/XPS/ECO              | F32T8/TL830 PLUS/ALTO   |
| F32T8/SXL/SP35/ECO                               | F032/835/XPS/ECO              | F32T8/TL830 PLUS/ALTO   |
| F32T8/SXL/SP41/ECO                               | F032/841/XPS/ECO              | F32T8/TL830 PLUS/ALTO   |
| <b>4' T12 WATT-MISER® F40</b>                    |                               |                         |
| F34/CW/RS/WM/ECO                                 | F34CW/SS/ECO                  | F34CW/RS/EW/ALTO        |
| F34WW/RS/WM/ECO                                  | F34WW/SS/ECO                  | F34WW/RS/EW/ALTO        |
| F34/SP30/RS/WM/ECO                               | F34/D30/SS/ECO                | F34/SPEC30/RS/EW/ALTO   |
| F34/SP35/RS/WM/ECO                               | F34/D35/SS/ECO                | F34/SPEC35/RS/EW/ALTO   |
| F34/SP41/RS/WM/ECO                               | F34/D41/SS/ECO                | F34/SPEC41/RS/EW/ALTO   |
| F34/SP50/RS/WM/ECO                               | —                             | —                       |
| F34/SP65/RS/WM/ECO                               | —                             | —                       |



## FLUORESCENT LAMP CROSS REFERENCE (CONTINUED)

| GE<br>Description                                | Osram Sylvania<br>Description | Philips<br>Description |
|--------------------------------------------------|-------------------------------|------------------------|
| <b>ORDER THIS GE LAMP IF YOU USE THESE LAMPS</b> |                               |                        |
| <b>4' T12 WATT-MISER® F40 SPX</b>                |                               |                        |
| F34/SPX30/RS/WM/ECO                              | F34/D830/SS/ECO               | F34/30U/RS/EW/ALTO     |
| F34/SPX35/RS/WM/ECO                              | F34/D835/SS/ECO               | F34/35U/RS/EW/ALTO     |
| F34/SPX41/RS/WM/ECO                              | F34/D841/SS/ECO               | F34/41U/RS/EW/ALTO     |
| <b>8' T12 WATT-MISER® (WM)</b>                   |                               |                        |
| F96T12/SP30/WM/ECO                               | F96T12/D30/SS/ECO             | F96T12/SPEC30/EW/ALTO  |
| F96T12/SP35/WM/ECO                               | F96T12/D35/SS/ECO             | F96T12/SPEC35/EW/ALTO  |
| F96T12/SP41/WM/ECO                               | F96T12/D41/SS/ECO             | F96T12/SPEC41/EW/ALTO  |
| F96T12/SP65/WM/ECO                               | F96T12/D65/SS<br>(not ECO)    | —                      |
| F96T12/SPX30/WM/ECO                              | F96T12/D830/SS/ECO            | F96T12/30U/EW/ALTO     |
| F96T12/SPX35/WM/ECO                              | F96T12/D835/SS/ECO            | F96T12/35U/EW/ALTO     |
| F96T12/SPX41/WM/ECO                              | F96T12/D841/SS/ECO            | F96T12/41U/EW/ALTO     |
| F96T12/SP30/ECO                                  | F96T12/D30/ECO                | F96T12/SPEC30/ALTO     |
| F96T12/SP35/ECO                                  | F96T12/D35/ECO                | F96T12/SPEC35/ALTO     |
| F96T12/SP41/ECO                                  | F96T12/D41/ECO                | F96T12/SPEC41/ALTO     |
| F96T12/SPX30/ECO                                 | F96T12/D830/ECO               | F96T12/SPEC30U/ALTO    |
| F96T12/SPX35/ECO                                 | F96T12/D835/ECO               | F96T12/SPEC35U/ALTO    |
| F96T12/SPX41/ECO                                 | F96T12/D841/ECO               | F96T12/SPEC41U/ALTO    |
| <b>8' T12 HIGH OUTPUT (WM)</b>                   |                               |                        |
| F96T12/CW/HO/WM/ECO                              | F96T12/CW/HO/<br>SS/ECO       | F96T12/CW/HO/EW/ALTO   |
| <b>T5 AND T5/HO</b>                              |                               |                        |
| F14W/T5/830/ECO                                  | FP14/830/ECO                  | F14T5/830/ALTO         |
| F14W/T5/835/ECO                                  | FP14/835/ECO                  | F14T5/835/ALTO         |
| F14W/T5/841/ECO                                  | FP14/841/ECO                  | F14T5/841/ALTO         |
| F14W/T5/850/ECO                                  | —                             | —                      |
| F14W/T5/865/ECO                                  | —                             | —                      |
| F21W/T5/830/ECO                                  | FP21/830/ECO                  | F21T5/830/ALTO         |
| F21W/T5/835/ECO                                  | FP21/835/ECO                  | F21T5/835/ALTO         |
| F21W/T5/841/ECO                                  | FP21/841/ECO                  | F21T5/841/ALTO         |
| F21W/T5/850/ECO                                  | —                             | —                      |
| F21W/T5/865/ECO                                  | —                             | —                      |
| F28W/T5/830/ECO                                  | FP28/830/ECO                  | F28T5/830/ALTO         |
| F28W/T5/835/ECO                                  | FP28/835/ECO                  | F28T5/835/ALTO         |
| F28W/T5/841/ECO                                  | FP28/841/ECO                  | F28T5/841/ALTO         |
| F28W/T5/850/ECO                                  | —                             | —                      |
| F28W/T5/865/ECO                                  | FP28/865/ECO                  | —                      |
| F35W/T5/830/ECO                                  | FP35/830/ECO                  | F35T5/830              |
| F35W/T5/835/ECO                                  | FP35/835/ECO                  | F35T5/835              |
| F35W/T5/841/ECO                                  | FP35/841/ECO                  | F35T5/841              |
| F35W/T5/850/ECO                                  | —                             | —                      |
| F35W/T5/865/ECO                                  | —                             | —                      |
| F24W/T5/830/ECO                                  | FP24/830/HO/ECO               | F24T5/830/HO/ALTO      |
| F24W/T5/835/ECO                                  | FP24/835/HO/ECO               | F24T5/835/HO/ALTO      |
| F24W/T5/841/ECO                                  | FP24/841/HO/ECO               | F24T5/841/HO/ALTO      |
| F24W/T5/850/ECO                                  | —                             | —                      |

| GE<br>Description                                | Osram Sylvania<br>Description | Philips<br>Description |
|--------------------------------------------------|-------------------------------|------------------------|
| <b>ORDER THIS GE LAMP IF YOU USE THESE LAMPS</b> |                               |                        |
| <b>T5 AND T5/HO (CONTINUED)</b>                  |                               |                        |
| F24W/T5/865/ECO                                  | —                             | —                      |
| F39W/T5/830/ECO                                  | FP39/830/HO/ECO               | F39T5/830/HO/ALTO      |
| F39W/T5/835/ECO                                  | FP39/835/HO/ECO               | F39T5/835/HO/ALTO      |
| F39W/T5/841/ECO                                  | FP39/841/HO/ECO               | F39T5/841/HO/ALTO      |
| F39W/T5/850/ECO                                  | —                             | —                      |
| F39W/T5/865/ECO                                  | —                             | —                      |
| F54W/T5/830/ECO                                  | FP54/830/HO/ECO               | F54T5/830/HO/ALTO      |
| F54W/T5/835/ECO                                  | FP54/835/HO/ECO               | F54T5/835/HO/ALTO      |
| F54W/T5/841/ECO                                  | FP54/841/HO/ECO               | F54T5/841/HO/ALTO      |
| F54W/T5/850/ECO                                  | FP54/850/HO/ECO               | F54T5/850/HO/ALTO      |
| F54W/T5/865/ECO                                  | FP54/865/HO/ECO               | F54T5/865/HO/ALTO      |
| F49W/T5/830/ECO                                  | —                             | —                      |
| F49W/T5/835/ECO                                  | —                             | —                      |
| F49W/T5/841/ECO                                  | —                             | —                      |
| F49W/T5/850/ECO                                  | —                             | —                      |
| F49W/T5/865/ECO                                  | —                             | —                      |
| F80W/T5/830/ECO                                  | FP80/830/HO                   | F80T5/830/HO           |
| F80W/T5/835/ECO                                  | FP80/835/HO                   | F80T5/835/HO           |
| F80W/T5/841/ECO                                  | FP80/841/HO                   | F80T5/841/HO           |
| F80W/T5/850/ECO                                  | —                             | —                      |
| F80W/T5/865/ECO                                  | —                             | —                      |
| <b>OTHER RAPID START</b>                         |                               |                        |
| F96PG17/CW/WM                                    | —                             | —                      |
| F34CW/U/6/WM/ECO                                 | FB34/CW/6/SS/ECO              | FB34/CW/6/EW/ALTO      |
| F40CW/U/3                                        | —                             | —                      |
| F40CW/U/6                                        | FB40CW/6                      | —                      |
| F48T12/CW/1500                                   | F48T12/CW/VHO                 | F48T12/CW/VHO          |
| F48PG17/CW                                       | —                             | —                      |
| F72T12/CW/1500                                   | F72T12/CW/VHO                 | F72T12/CW/VHO          |
| F72PG17/CW                                       | —                             | —                      |
| F96T12/CW/1500                                   | F96T12/CW/VHO                 | F96T12/CW/VHO          |
| F96PG17/CW                                       | —                             | —                      |
| F48T12/CW/1500/0                                 | F48T12/CW/VHO/LT              | F48T12/CW/VHO-0        |
| F48T12/CW/VHO/0                                  | —                             | —                      |
| F60T10/CW                                        | F60T12/CW/VHO/LT              | F60T12/CW/VHO-0        |
| F72T12/CW/1500/0                                 | F72T12/CW/VHO/LT              | F72T12/CW/VHO-0        |
| F96T12/CW/1500/0                                 | F96T12/CW/VHO/LT              | F96T12/CW/VHO-0        |
| F48T10J/CW                                       | FJ48T12/CW/VHO/LT             | FJ48T12/CW/VHO-0       |
| F60T10J/CW                                       | —                             | FJ60T12/CW/VHO-0       |
| F72T10J/CW                                       | FJ72T12/CW/VHO/LT             | FJ72T12/CW/VHO-0       |
| F96T10J/CW                                       | FJ96T12/CW/VHO/LT             | FJ96T12/CW/VHO-0       |



## GE ULTRAMAX® INSTANT START BALLASTS

### GE REVOLUTIONIZES LIGHTING AGAIN WITH BREAKTHROUGH TECHNOLOGY

In the GE labs, our engineers have developed a breed of ballasts to make lighting systems that save more energy, are more adaptable, and deliver optimal lamp performance. The innovative, patented technology in our new UltraMax® electronic ballasts exceeds expectations, and is like nothing else available.

### MULTI-VOLTAGE TECHNOLOGY MEANS A SINGLE ULTRAMAX® MODEL HANDLES VOLTAGE FROM 120 THROUGH 277

UltraMax® Ballasts can virtually "read" the incoming voltage and adapt automatically to any voltage from 108V to 305V. The benefits of Multi-Voltage Control (MVC) are obvious:

- Fewer models handle more jobs, eliminating inventory hassles.
- MVC simplifies installation and eliminates guesswork at the job site.
- MVC compensates for incoming voltage fluctuations or variations from unreliable power.

### THE ULTRAMAX® IS THE ONLY FULL LINE OF T8 BALLASTS WITH A UL TYPE CC ANTI-ARC RATING

UL Type CC Rating is a stringent designation of protection against arcing in electrical devices. GE's Arc-Guard design eliminates the damaging effects arcing can have on lamps, ballasts and sockets.

### HIGH EFFICIENCY DELIVERS OVER 40% ENERGY SAVINGS

Ballasts are the new frontier of energy efficiency. Systems combining UltraMax® electronic ballasts and T8/WM lamps can deliver over 40% energy savings over standard electromagnetically ballasted T12 systems. Since energy costs are typically 80% of the overall cost of light, a more efficient system can pay for itself in a very short time and provide an excellent return on investment.

### ULTRAMAX® IS ULTRA LAMP FRIENDLY

With an industry low lamp current crest factor (LCCF) of <1.5, UltraMax® ensures optimal lamp operation and maximum lamp life, which can save on lamp and maintenance costs.

### ACTIVE CURRENT REGULATION (ACR) TECHNOLOGY IS A PATENTED ADVANTAGE

The UltraMax® ballast's patented ACR modular design means individual inverter modules regulate the output current to each lamp. So, unlike conventional ballasts, if one lamp fails, the remaining lamps are not forced to operate at a higher current. This ensures optimal lamp performance.

### ANTI-STRIATION CONTROL FOR BETTER LIGHT QUALITY, WITH NO STRIATIONS

The UltraMax® is the only line of T8 ballasts with Anti-Striation Control. This advanced technology eliminates the maintenance issues caused by striating lamps, often referred to as spiraling or swirling. This provides a flicker- and worry-free environment.

### COMPARE THE ENERGY USE OF A THREE LAMP FIXTURE

| Technology                       | Watts |
|----------------------------------|-------|
| Standard T12/WM System           | 117   |
| Standard Electronic T8 System    | 87    |
| UltraMax™ L System With GE F28T8 | 65    |

### FULLY PARALLEL INDEPENDENT LAMP OPERATION MAKES SYSTEM EASIER TO MAINTAIN

If one lamp fails, all the others in the system stay lit. That means system maintenance is easier to manage.

### ULTRAMAX® IS ULTRA-COOL

The UltraMax® ballast's high efficiency design results in ultra-cool operation that can provide additional AC energy savings, especially during peak demand periods.

### A BIG IDEA IN A SMALL PACKAGE

The UltraMax® ballast housing is smaller, lower-profile and lightweight. That can be a big help in retrofits. It also means future fixture designs can be more compact and streamlined.

### EVERY UNIT IS TESTED AND PROVEN BEFORE IT'S SHIPPED

GE does 100% burn-in on every UltraMax™ ballast using our extreme open/short test, which simulates undesirable and harsh-use situations, so you are assured of a system you can rely on right out of the box.

### GE SIX SIGMA QUALITY BACKED BY A FULL 5-YEAR LIMITED WARRANTY

The UltraMax® balast is designed by GE's expert engineers and custom-manufactured to our exacting Six Sigma specifications, all backed by a full 5-year warranty. When used with GE T8 Lamps you also get our Total Performance System Warranty which can cover lamps up to 3 years depending on your annual usage. Contact your GE Representative for more details.

### A FULL FAMILY OF HIGH EFFICIENCY MULTI-VOLTAGE BALLASTS FOR ALL T8 APPLICATIONS



**The Low watt option** for Max energy savings. With a ballast factor of .77, the L line is the most energy efficient choice. It provides adequate illumination for most applications. For 1, 2, 3, and 4 T8 lamps in 2', 3', and 4' lengths.



**The Normal light option** balances efficiency and illumination. The most-used type of ballast, the N line saves energy without sacrificing lumens. A ballast factor of .87 meets most application needs. For 1, 2, 3, and 4 T8 lamps in 2', 3', 4', and 8' lengths.



**The choice for High light output.** With a ballast factor of 1.15, UltraMax® H delivers the most lumens for maximum light or when you want more savings using fewer lamps. This is the first high-efficiency high-light output line for 2, 3 and 4 T8 lamps.



## ULTRASTART® PROGRAMMED START BALLASTS

### FEATURES AND BENEFITS

#### Longer Lamp Life in Frequently Switched Applications

- UltraStart® extends lamp life by 18% to greater than 200% versus instant start ballasts in frequently switched applications, saving you money in maintenance costs and replacement lamps.
- Program Start ballasts are required in any applications using sensors or where extended lamp life is a primary concern. Operation of instant start ballast systems in frequently-switched applications in conjunction with automated controls (such as, but not limited to, occupancy sensor) will void lamp warranties.

#### Same Energy Savings as High-Efficiency Instant Start Ballasts

- GE UltraStart® ballasts operate at an industry high 90%+ efficiency. Traditional PS ballasts typically operate between 79–86%.

#### Simplify Installation with Multi-Voltage Technology

- The UltraStart® T5 and UltraStart® T8 XL and H ballasts incorporate Multi-Voltage technology. UltraStart® can virtually “read” the incoming voltage and adapt automatically to any voltage from 108V to 305V. Fewer models handle more jobs with Multi-Voltage technology, and it eliminates guess work at the job site. Multi-Voltage BallastsControl (MVC) also compensates for incoming voltage fluctuations or variations from unreliable power.

#### Lower Maintenance Costs with Parallel Mode Operation

- Most PS ballasts operate in series mode, meaning if one bulb goes out, they all go out. GE UltraStart® T8 ballasts operate in parallel mode, meaning if one bulb goes out, others stay on.

#### Fast Starting Time

- GE UltraStart® T8 ballasts start in visually the same time as instant start ballasts (less than 0.7 seconds)—a significant improvement versus

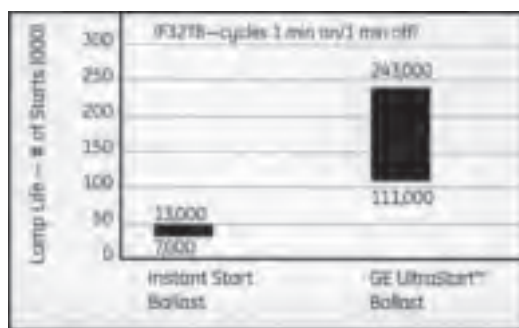
traditional PS ballasts. An important feature when using sensors and the annoying delay of waiting for the lights to turn on with traditional PS ballasts.

#### Complies with (RoHS) Restrictions of Hazardous Materials Standards.

### GE LAMP LIFE RANGE—INSTANT START VS. PROGRAMMED START\*\*

GE lamp life studies have shown that lamp life is up to 20 times longer in rapid cycle testing. Lamp life tests have demonstrated 111,000 to 243,000 starts on F32T8 lamps with GE UltraStart® ballasts as opposed to only 7,000 to 13,000 starts with standard instant start ballasts. UltraStart® maximizes lamp life in frequently switched applications and where lamp life is a primary concern. GE UltraStart® ballasts and lamps provide guaranteed performance with the GE Total System Limited Warranty.

\*\*GE 2004–2005 lamp testing @ industry standard B50 rapid cycle testing.



| Product Code                                                 | Description      | Application                                         | Starting Method | Ballast Factor | Lamp Wiring | Package Type | Units Per Carton |
|--------------------------------------------------------------|------------------|-----------------------------------------------------|-----------------|----------------|-------------|--------------|------------------|
| <b>ULTRAMAX® INSTANT START MULTI-VOLTAGE HIGH EFFICIENCY</b> |                  |                                                     |                 |                |             |              |                  |
| 49706                                                        | GE132MAX-L/ULTRA | 1- F32T8 120 to 277 "L" .77BF                       | Instant Start   | Low            | Parallel    | Standard     | 10               |
| 49771                                                        | GE132MAX-N/ULTRA | 1- F32T8 120 to 277 "N" .87 BF                      | Instant Start   | Normal         | Parallel    | Standard     | 10               |
| 23939                                                        | GE132MAX-N-IP    | 1- F32T8 120 to 277 "N" .87 BF I-Pack 4/carton      | Instant Start   | Normal         | Parallel    | DIY          | 4                |
| 49775                                                        | GE232MAX-H/ULTRA | 2 or 1- F32T8 120 to 277 "H" 1.15 BF                | Instant Start   | High           | Parallel    | Standard     | 10               |
| 47548                                                        | GE232MAX-H-42T   | 2 or 1- F32T8 120 to 277 "H" 1.15 BF Pallet Pack    | Instant Start   | High           | Parallel    | Pallet Pack  | 420              |
| 49707                                                        | GE232MAX-L/ULTRA | 2 or 1- F32T8 120 to 277 "L" .77 BF                 | Instant Start   | Low            | Parallel    | Standard     | 10               |
| 47546                                                        | GE232MAX-L-42T   | 2 or 1- F32T8 120 to 277 "L" .77 BF Pallet Pack     | Instant Start   | Low            | Parallel    | Pallet Pack  | 420              |
| 49772                                                        | GE232MAX-N/ULTRA | 2 or 1- F32T8 120 to 277 "N" .87 BF                 | Instant Start   | Normal         | Parallel    | Standard     | 10               |
| 31052                                                        | GE232MAX-N-42T   | 2 or 1- F32T8 120 to 277 "N" .87 BF Pallet Pack     | Instant Start   | Normal         | Parallel    | Pallet Pack  | 420              |
| 23940                                                        | GE232MAX-N-IP    | 2 or 1- F32T8 120 to 277 "N" .87 BF I-Pack 4/carton | Instant Start   | Normal         | Parallel    | DIY          | 4                |
| 49776                                                        | GE332MAX-H/ULTRA | 3 or 2- F32T8 120 to 277                            | Instant Start   | High           | Parallel    | Standard     | 10               |
| 47549                                                        | GE332MAX-H-42T   | 3 or 2- F32T8 120 to 277 "H" 1.15 BF Pallet Pack    | Instant Start   | High           | Parallel    | Pallet Pack  | 420              |
| 49708                                                        | GE332MAX-L/ULTRA | 3 or 2- F32T8 120 to 277 "L" .77 BF                 | Instant Start   | Low            | Parallel    | Standard     | 10               |
| 31055                                                        | GE332MAX-L-42T   | 3 or 2- F32T8 120 to 277 "L" .77 BF Pallet Pack     | Instant Start   | Low            | Parallel    | Pallet Pack  | 420              |
| 49773                                                        | GE332MAX-N/ULTRA | 3 or 2- F32T8 120 to 277 "N" .87 BF                 | Instant Start   | Normal         | Parallel    | Standard     | 10               |
| 31053                                                        | GE332MAX-N-42T   | 3 or 2- F32T8 120 to 277 "N" .87 BF Pallet Pack     | Instant Start   | Normal         | Parallel    | Pallet Pack  | 420              |
| 23941                                                        | GE332MAX-N-IP    | 3 or 2- F32T8 120 to 277 "N" .87 BF I-Pack 4/carton | Instant Start   | Normal         | Parallel    | DIY          | 4                |
| 49777                                                        | GE432MAX-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.15 BF                | Instant Start   | High           | Parallel    | Standard     | 10               |
| 47550                                                        | GE432MAX-H-42T   | 4 or 3- F32T8 120 to 277 "H" 1.15 BF Pallet Pack    | Instant Start   | High           | Parallel    | Pallet Pack  | 420              |
| 49709                                                        | GE432MAX-L/ULTRA | 4 or 3- F32T8 120 to 277 "L" .77 BF                 | Instant Start   | Low            | Parallel    | Standard     | 10               |
| 47547                                                        | GE432MAX-L-42T   | 4 or 3- F32T8 120 to 277 "L" .77 BF Pallet Pack     | Instant Start   | Low            | Parallel    | Pallet Pack  | 420              |
| 49774                                                        | GE432MAX-N/ULTRA | 4 or 3- F32T8 120 to 277 "N" .87 BF                 | Instant Start   | Normal         | Parallel    | Standard     | 10               |
| 31054                                                        | GE432MAX-N-42T   | 4 or 3- F32T8 120 to 277 "N" .87 BF Pallet Pack     | Instant Start   | Normal         | Parallel    | Pallet Pack  | 420              |
| 23942                                                        | GE432MAX-N-IP    | 4 or 3- F32T8 120 to 277 "N" .87 BF I-Pack 4/carton | Instant Start   | Normal         | Parallel    | DIY          | 4                |



| Product Code                                                             | Description      | Application                                                | Starting Method  | Ballast Factor | Lamp Wiring     | Package Type | Units Per Carton |
|--------------------------------------------------------------------------|------------------|------------------------------------------------------------|------------------|----------------|-----------------|--------------|------------------|
| <b>ULTRAMAX™ INSTANT START MULTI-VOLTAGE HIGH EFFICIENCY (CONTINUED)</b> |                  |                                                            |                  |                |                 |              |                  |
| 49766                                                                    | GE159MAX-N/ULTRA | 1- F96T8 120 to 277                                        | Instant Start    | Normal         | Parallel        | Standard     | 10               |
| 49767                                                                    | GE259MAX-N/ULTRA | 2 or 1- F96T8 120 to 277 "N" .87 BF                        | Instant Start    | Normal         | Parallel        | Standard     | 10               |
| 23954                                                                    | GE259MAX-N-IP    | 2 or 1- F96T8 120 to 277 "N" .87 BF I-Pack 4/carton        | Instant Start    | Normal         | Parallel        | DIY          | 4                |
| <b>ULTRASTART™ T8 PROGRAM START</b>                                      |                  |                                                            |                  |                |                 |              |                  |
| 29621                                                                    | GE-232-120-PS-N  | 2 F32T8 120V Normal Light .87 BF<10% THD<br>UltraStart     | Programmed Start | Normal         | Parallel        | Standard     | 10               |
| 29630                                                                    | GE-232-120PS-N-T | 2 F32T8 120V Normal Light .87 BF<10% THD<br>UltraStart     | Programmed Start | Normal         | Parallel        | Pallet Pack  | 420              |
| 29622                                                                    | GE-232-277-PS-N  | 2 F32T8 277V Normal Light .87 BF<10% THD                   | Programmed Start | Normal         | Parallel        | Standard     | 10               |
| 29632                                                                    | GE-232-277PS-N-T | 2 F32T8 277V Normal Light .87 BF<10% THD<br>UltraStart     | Programmed Start | Normal         | Parallel        | Pallet Pack  | 420              |
| 29675                                                                    | GE-232-MVPS-H    | 2 F32T8 120V-277V High Light 1.15 BF<10% THD<br>UltraStart | Programmed Start | High           | Parallel        | Standard     | 10               |
| 29651                                                                    | GE-232-MV-PS-H-T | 2 F32T8 120V-277V High Light 1.15 BF<10% THD<br>UltraStart | Programmed Start | High           | Parallel        | Pallet Pack  | 420              |
| 29671                                                                    | GE-232-MVPS-XL   | 2 F32T8 120V-277V Ultra Low Watt .60 BF<10% THD            | Programmed Start | Ultra Low      | Parallel        | Standard     | 10               |
| 29665                                                                    | GE-232-MVPS-XL-T | 2 F32T8 120V-277V Ultra Low Watt .60 BF<10% THD            | Programmed Start | Ultra Low      | Parallel        | Pallet Pack  | 420              |
| 29623                                                                    | GE-332-120-PS-N  | 3 F32T8 120V Normal Light .87 BF<10% THD<br>UltraStart     | Programmed Start | Normal         | Parallel        | Standard     | 10               |
| 29633                                                                    | GE-332-120PS-N-T | 3 F32T8 120V Normal Light .87 BF<10% THD<br>UltraStart     | Programmed Start | Normal         | Parallel        | Pallet Pack  | 420              |
| 29624                                                                    | GE-332-277-PS-N  | 3 F32T8 277V Normal Light .87 BF<10% THD<br>UltraStart     | Programmed Start | Normal         | Parallel        | Standard     | 10               |
| 29634                                                                    | GE-332-277PS-N-T | 3 F32T8 277V Normal Light .87 BF<10% THD<br>UltraStart     | Programmed Start | Normal         | Parallel        | Pallet Pack  | 420              |
| 29676                                                                    | GE-332-MVPS-H    | 3 F32T8 120V-277V High Light 1.15 BF<10% THD<br>UltraStart | Programmed Start | High           | Parallel        | Standard     | 10               |
| 29656                                                                    | GE-332-MV-PS-H-T | 3 F32T8 120V-277V High Light 1.15 BF<10% THD<br>UltraStart | Programmed Start | High           | Parallel        | Pallet Pack  | 420              |
| 29672                                                                    | GE-332-MVPS-XL   | 3 F32T8 120V-277V Ultra Low Watt .60 BF<10% THD            | Programmed Start | Ultra Low      | Parallel        | Standard     | 10               |
| 29666                                                                    | GE-332-MVPS-XL-T | 3 F32T8 120V-277V Extra Low Watt .60 BF<10% THD            | Programmed Start | Ultra Low      | Parallel        | Pallet Pack  | 420              |
| 29625                                                                    | GE-432-120-PS-N  | 4 F32T8 120V Normal Light .87 BF<10% THD<br>UltraStart     | Programmed Start | Normal         | Parallel        | Standard     | 10               |
| 29635                                                                    | GE-432-120PS-N-T | 4 F32T8 120V Normal Light .87 BF<10% THD<br>UltraStart     | Programmed Start | Normal         | Parallel        | Pallet Pack  | 420              |
| 29627                                                                    | GE-432-277-PS-N  | 4 F32T8 277V Normal Light .87 BF<10% THD<br>UltraStart     | Programmed Start | Normal         | Parallel        | Standard     | 10               |
| 29650                                                                    | GE-432-277PS-N-T | 4 F32T8 277V Normal Light .87 BF<10% THD<br>UltraStart     | Programmed Start | Normal         | Parallel        | Pallet Pack  | 420              |
| 29678                                                                    | GE-432-MVPS-H    | 4 F32T8 120V-277V High Light 1.15 BF<10% THD<br>UltraStart | Programmed Start | High           | Parallel        | Standard     | 8                |
| 29657                                                                    | GE-432-MV-PS-H-T | 4 F32T8 120V-277V High Light 1.15 BF<10% THD<br>UltraStart | Programmed Start | High           | Parallel        | Pallet Pack  | 420              |
| <b>RAPID START T12 HIGH OUTPUT</b>                                       |                  |                                                            |                  |                |                 |              |                  |
| 80162                                                                    | B295SR120HP      | 2- F96T12HOES RS 120                                       | Rapid Start      | Normal         | Series          | Standard     | 6                |
| 80163                                                                    | B295SR277HP      | 2- F96T12HOES RS 277                                       | Rapid Start      | Normal         | Series          | Standard     | 6                |
| <b>ULTRASTART® T5 PROGRAM START</b>                                      |                  |                                                            |                  |                |                 |              |                  |
| 29726                                                                    | GE454MVPSN1      | 4 or 2- F54T5HO 120 to 277 UltraStart PRS                  | Programmed Start | Normal         | Series-Parallel | Standard     | 12               |
| 29717                                                                    | GE454MVPSN1-B    | 4 or 2- F54T5HO 120 to 277 UltraStart PRS<br>Pallet Pack   | Programmed Start | Normal         | Series-Parallel | Pallet Pack  | 420              |

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Ballasts

| Product Code                                         | Description      | Application                                      | Starting Method  | Ballast Factor | Lamp Wiring | Package Type | Units Per Carton |
|------------------------------------------------------|------------------|--------------------------------------------------|------------------|----------------|-------------|--------------|------------------|
| <b>T5 PROGRAMMED START MULTI-VOLT 120V - 277V</b>    |                  |                                                  |                  |                |             |              |                  |
| 47534                                                | B224PUNV-C0G1C   | 2- F24T5HO PRS UNV 50/60 Hz                      | Programmed Start | Normal         | Series      | Standard     | 10               |
| 47536                                                | B228PUNV-C0G1C   | 2- F28T5 PRS UNV 50/60 Hz                        | Programmed Start | Normal         | Series      | Standard     | 10               |
| 47540                                                | B239PUNV-D0G1C   | 2- F39T5HO PRS UNV 50/60 Hz                      | Programmed Start | Normal         | Series      | Standard     | 10               |
| 47542                                                | B254PUNV-DGE1C   | 2- F54T5HO PRS UNV 50/60 Hz                      | Programmed Start | Normal         | Series      | Standard     | 10               |
| <b>PROLINE™ T8 INSTANT START</b>                     |                  |                                                  |                  |                |             |              |                  |
| 23680                                                | GE-132-120-N     | 1 F32T8 120V "N".87 BF                           | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 24161                                                | GE-132-120-N-84T | 1 F32T8 120V "N".87 BF Pallet Pack               | Instant Start    | Normal         | Parallel    | Pallet Pack  | 840              |
| 23681                                                | GE-132-277-N     | 1 F32T8 277V "N".87 BF                           | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 24162                                                | GE-132-277-N-84T | 1 F32T8 277V "N".87 BF Pallet Pack               | Instant Start    | Normal         | Parallel    | Pallet Pack  | 840              |
| 23671                                                | GE-232-120-N     | 2 or 1- F32T8 120V "N".87 BF                     | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 24163                                                | GE-232-120-N-84T | 2 or 1- F32T8 120V "N".87 BF Pallet Pack         | Instant Start    | Normal         | Parallel    | Pallet Pack  | 840              |
| 23672                                                | GE-232-277-N     | 2 or 1- F32T8 277V "N".87 BF                     | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 24164                                                | GE-232-277-N-84T | 2 or 1- F32T8 277V "N".87 BF Pallet Pack         | Instant Start    | Normal         | Parallel    | Pallet Pack  | 840              |
| 23673                                                | GE-332-120-N     | 3 or 2- F32T8 120V "N".87 BF                     | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 24165                                                | GE-332-120-N-84T | 3 or 2- F32T8 120V "N".87 BF Pallet Pack         | Instant Start    | Normal         | Parallel    | Pallet Pack  | 840              |
| 23674                                                | GE-332-277-N     | 3 or 2- F32T8 277V "N".87 BF                     | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 24166                                                | GE-332-277-N-84T | 3 or 2- F32T8 277V "N".87 BF Pallet Pack         | Instant Start    | Normal         | Parallel    | Pallet Pack  | 840              |
| 23675                                                | GE-432-120-N     | 4 or 3- F32T8 120V "N".87 BF                     | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 24167                                                | GE-432-120-N-84T | 4 or 3- F32T8 120V "N".87 BF Pallet Pack         | Instant Start    | Normal         | Parallel    | Pallet Pack  | 840              |
| 23676                                                | GE-432-277-N     | 4 or 3- F32T8 277V "N".87 BF                     | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 24168                                                | GE-432-277-N-84T | 4 or 3- F32T8 277V "N".87 BF Pallet Pack         | Instant Start    | Normal         | Parallel    | Pallet Pack  | 840              |
| 23677                                                | GE-259-120-N     | 2 or 1 F96T8 120v Normal Light .87 BF<10%THD     | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 24169                                                | GE-259-120-N-84T | 2 or 1- F96T8 120v "N".87 BF Pallet Pack         | Instant Start    | Normal         | Parallel    | Pallet Pack  | 840              |
| 23678                                                | GE-259-277-N     | 2 or 1- F96T8 277v "N".87 BF                     | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 24170                                                | GE-259-277-N-84T | 2 or 1- F96T8 277v "N".87 BF Pallet Pack         | Instant Start    | Normal         | Parallel    | Pallet Pack  | 840              |
| <b>MULTI-VOLT PROLINE™ T8 INSTANT START 120-277V</b> |                  |                                                  |                  |                |             |              |                  |
| 30189                                                | GE-132-MV-N      | 1- F32T8 120 to 277 "N".87 BF                    | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 30268                                                | GE-132-MV-N-42T  | 1- F32T8 120 to 277 "N".87 BF Pallet Pack        | Instant Start    | Normal         | Parallel    | Pallet Pack  | 420              |
| 30198                                                | GE-232-MV-H2 or  | 1- F32T8 120 to 277 "H" 1.15 BF                  | Instant Start    | High           | Parallel    | Standard     | 10               |
| 30275                                                | GE-232-MV-H-42T  | 2 or 1- F32T8 120 to 277 "H" 1.15 BF Pallet Pack | Instant Start    | High           | Parallel    | Pallet Pack  | 420              |
| 30247                                                | GE-232-MV-L      | 2 or 1- F32T8 120 to 277 "L".77 BF               | Instant Start    | Low            | Parallel    | Standard     | 10               |
| 30191                                                | GE-232-MV-N      | 2 or 1- F32T8 120 to 277 "N".87 BF               | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 30269                                                | GE-232-MV-N-42T  | 2 or 1- F32T8 120 to 277 "N".87 BF Pallet Pack   | Instant Start    | Normal         | Parallel    | Pallet Pack  | 420              |
| 30199                                                | GE-332-MV-H      | 3 or 2- F32T8 120 to 277 "H" 1.15 BF             | Instant Start    | High           | Parallel    | Standard     | 10               |
| 30296                                                | GE-332-MV-H-42T  | 3 or 2- F32T8 120 to 277 "H" 1.15 BF Pallet Pack | Instant Start    | High           | Parallel    | Pallet Pack  | 420              |
| 30255                                                | GE-332-MV-L      | 3 or 2- F32T8 120 to 277                         | Instant Start    | Low            | Parallel    | Standard     | 10               |
| 30309                                                | GE-332-MV-L-42T  | 3 or 2- F32T8 120 to 277                         | Instant Start    | Low            | Parallel    | Standard     | 420              |
| 30192                                                | GE-332-MV-N      | 3 or 2- F32T8 120 to 277 "N".87 BF               | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 30270                                                | GE-332-MV-N-42T  | 3 or 2- F32T8 120 to 277 "N".87 BF Pallet Pack   | Instant Start    | Normal         | Parallel    | Pallet Pack  | 420              |
| 30219                                                | GE-432-MV-H      | 4 or 3- F32T8 120 to 277 "H" 1.15 BF             | Instant Start    | High           | Parallel    | Standard     | 10               |
| 30303                                                | GE-432-MV-H-42T  | 4 or 3- F32T8 120 to 277 "H" 1.15 BF Pallet Pack | Instant Start    | High           | Parallel    | Pallet Pack  | 420              |
| 30262                                                | GE-432-MV-L      | 4 or 3- F32T8 120 to 277                         | Instant Start    | Low            | Parallel    | Standard     | 10               |
| 30310                                                | GE-432-MV-L-42T  | 4 or 3- F32T8 120 to 277                         | Instant Start    | Low            | Parallel    | Pallet Pack  | 420              |
| 30193                                                | GE-432-MV-N      | 4 or 3- F32T8 120 to 277 "N".87 BF               | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 30271                                                | GE-432-MV-N-42T  | 4 or 3- F32T8 120 to 277 "N".87 BF Pallet Pack   | Instant Start    | Normal         | Parallel    | Pallet Pack  | 420              |
| 30195                                                | GE-159-MV-N      | 1- F96T8 120 to 277 "N".87 BF                    | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 30274                                                | GE-159-MV-N-42T  | 1- F96T8 120 to 277 "N".87 BF Pallet Pack        | Instant Start    | Normal         | Parallel    | Pallet Pack  | 420              |
| 30194                                                | GE-259-MV-N      | 2 or 1- F96T8 120 to 277 "N".87 BF               | Instant Start    | Normal         | Parallel    | Standard     | 10               |
| 30272                                                | GE-259-MV-N-42T  | 2 or 1- F96T8 120 to 277 "N".87 BF Pallet Pack   | Instant Start    | Normal         | Parallel    | Pallet Pack  | 420              |



| Product Code                                                     | Description          | Application                                                          | Starting Method  | Ballast Factor | Lamp Wiring | Package Type    | Units Per Carton |
|------------------------------------------------------------------|----------------------|----------------------------------------------------------------------|------------------|----------------|-------------|-----------------|------------------|
| <b>MULTI-VOLT PROLINE™ T8 INSTANT START 120-277V (CONTINUED)</b> |                      |                                                                      |                  |                |             |                 |                  |
| 30176                                                            | GE-286-HO-MV-N       | 2 or 1- F96T8HO IS 120 to 277 "N" .87 BF                             | Instant Start    | Normal         | Parallel    | Standard        | 10               |
| 30187                                                            | GE-286-HO-MV-N-P     | 2 or 1- F96T8HO IS 120 to 277 "N" .87 BF                             | Instant Start    | Normal         | Parallel    | Pallet Pack     | 420              |
| <b>MULTI-VOLT PROLINE™ T12 ELECTRONIC T12 120-277V</b>           |                      |                                                                      |                  |                |             |                 |                  |
| 24107                                                            | GE-240-RS-MV-N       | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF                  | Rapid Start      | Normal         | Parallel    | Standard        | 10               |
| 24773                                                            | GE-240RS-MV-N-DIY    | 2 or 1- F40 or F34T12 RS 120 to 277 I-Pack<br>4/carton               | Rapid Start      | Normal         | Parallel    | DIY             | 4                |
| 24109                                                            | GE-340-RS-MV-N       | 3 or 2- F40 or F34T12 Rapid Start 120 to 277                         | Rapid Start      | Normal         | Parallel    | Standard        | 10               |
| 24774                                                            | GE-340RS-MV-N-DIY    | 3 or 2- F40 or F34T12 RS 120 to 277 I-Pack<br>4/carton               | Rapid Start      | Normal         | Parallel    | DIY             | 4                |
| 24776                                                            | GE-260IS-MV-N-DIY    | 2 or 1- F96T12 IS 120 to 277; I-Pack 4/carton                        | Instant Start    | Normal         | Parallel    | DIY             | 4                |
| 24108                                                            | GE-260-IS-MV-N       | 2 or 1- F96T12 Instant Start 120 to 277                              | —                | High           | Parallel    | Standard        | 6                |
| <b>OTHER INSTANT START</b>                                       |                      |                                                                      |                  |                |             |                 |                  |
| 80148                                                            | B259I120RHH          | 2 F96T8 IS 120 60 HBEX                                               | Instant Start    | High           | Parallel    | Standard        | 6                |
| 80149                                                            | B259I277RHH          | 2 F96T8 IS 277 60 HBCX                                               | Instant Start    | High           | Parallel    | Standard        | 6                |
| 80136                                                            | B332I347HP           | 3- F32T8 IS 347 60Hz <10% THD "N" BF                                 | Instant Start    | Normal         | Parallel    | Standard        | 10               |
| 80277                                                            | B332I347HPL          | 3- F32T8 IS 347 <10% THD "L" BF                                      | Instant Start    | Low            | Parallel    | Standard        | 10               |
| <b>T8 DIMMING</b>                                                |                      |                                                                      |                  |                |             |                 |                  |
| 80353                                                            | B132R120V5           | 1- F32T8 DIM 100 to 5% RS 120                                        | Rapid Start      | Normal         | Series      | Standard        | 10               |
| 80355                                                            | B232SR120V5          | 2- F32T8 DIM 100 to 5% RS 120                                        | Rapid Start      | Normal         | Series      | Standard        | 10               |
| 80362                                                            | B232SR277S50         | 2- F32T8 Switch 100 / 50% RS 277                                     | Rapid Start      | Normal         | Series      | Standard        | 10               |
| 80356                                                            | B232SR277V5          | 2- F32T8 DIM 100 to 5% RS 277                                        | Rapid Start      | Normal         | Series      | Standard        | 10               |
| 80357                                                            | B332SR120V5          | 3- F32T8 DIM 100 to 5% RS 120                                        | Rapid Start      | Normal         | Series      | Standard        | 10               |
| 80358                                                            | B332SR277V5          | 3- F32T8 DIM 100 to 5% RS 277                                        | Rapid Start      | Normal         | Series      | Standard        | 10               |
| <b>MAGNETIC T12, T8, CIRCLELINE® BALLASTS</b>                    |                      |                                                                      |                  |                |             |                 |                  |
| 89711                                                            | GEM120-PH-120-DIY    | 1- F20T12 F15T8 F1512 120V<br>Magnetic Ballast(200H2)                | Preheat          | Normal         | Series      | DIY             | 10               |
| 89712                                                            | GEM120-TC-120-DIY    | 1- F20T12 F15T8 F15T12 F14T12 120V<br>Magnetic Ballast (546BTCP)     | Trigger Start    | Normal         | Series      | DIY             | 4                |
| 89714                                                            | GEM140-HRS-120-DIY   | 1- F40T12 F40T12 120V<br>Magnetic Ballast (412LSLHTCP)               | Rapid Start      | Normal         | Series      | DIY             | 4                |
| 89709                                                            | GEM140-RS-120-DIY    | 1- F40T12 F30T12 F48/25W 120V<br>Magnetic Ballast (413CTCP)          | Rapid Start      | Normal         | Series      | DIY             | 4                |
| 86158                                                            | GEM140-RS-277-IP     | 2- F40T12, F40T10, 120V, Magnetic Ballast,<br>(446LSLHTCP)           | Rapid Start      | Normal         | Series      | Individual Pack | 10               |
| 89719                                                            | GEM196-IS-120-DIY    | 1- F96T12 120V Magnetic Ballast (822BRTCP)                           | Instant Start    | Normal         | Series      | DIY             | 4                |
| 86372                                                            | GEM196-IS-120-IP     | 1- F96T12 IS 120 Magnetic Ballast (822BRTCP)                         | Instant Start    | Normal         | Series      | Individual Pack | 6                |
| 86381                                                            | GEM196-IS-277        | 1- F96T12 IS 277 Magnetic Ballast (828BRTCP)                         | Instant Start    | Normal         | Series      | Individual Pack | 6                |
| 86231                                                            | GEM1F4T5-PH-120      | 1- F20T12, F15T8, F15T12, F14T12, 120V,<br>Magnetic (546BTCP)        | Preheat          | Normal         | Series      | Individual Pack | 20               |
| 89720                                                            | GEM1FC16T9-RS-120    | 2- FC12T9 FC16T9 FC8T9 FC12T9 120V<br>Magnetic (726VLHWSTCP)         | Rapid Start      | Normal         | Series      | DIY             | 4                |
| 86132                                                            | GEM1FC16T9-RS-120-IP | 1- F96T12, IS, 277V, Magnetic Ballast (828BRTCP)                     | Rapid Start      | Normal         | Series      | Individual Pack | 10               |
| 89722                                                            | GEM1FC8T9-RS-120-DIY | 1- FC8T9 RS 120V Magnetic Ballast (547RSWSTCP)                       | Rapid Start      | Normal         | Series      | DIY             | 4                |
| 86227                                                            | GEM1FC8T9-RS-120-IP  | 1- FC8T9 RS 120V Magnetic Ballast (547RSWSTCP)                       | Rapid Start      | Normal         | Series      | Individual Pack | 10               |
| 89717                                                            | GEM1FC12T9-RS-120    | 2 FC12T9 RS 120V Magnetic Ballast (449LRWSTCP)                       | Rapid Start      | Normal         | Series      | Standard        | 4                |
| 80819                                                            | GEM220-TS-120-DIY    | 2- F20T12 F15T8 F15T12 F14T12 120V<br>Magnetic Ballast (447LRVLHTCP) | Trigger Start    | Normal         | Series      | DIY             | 4                |
| 80644                                                            | GEM230-RS-120        | 2- F30T12 120V Magnetic Ballast (573LTCP)                            | Rapid Start      | Normal         | Series      | DIY             | 4                |
| 87125                                                            | GEM232T8-RS-120      | 2- F32T8 RS 120V Magnetic Ballast (M232SR120C)                       | Rapid Start      | Normal         | Series      | Individual Pack | 10               |
| 87130                                                            | GEM232T8-RS-277      | 2- F32T8 RS 277V Magnetic Ballast (M232SR277C)                       | Rapid Start      | Normal         | Series      | Individual Pack | 10               |
| 89710                                                            | GEM240-HRS-120-DIY   | 2- F40T12 F40T12 120V Magnetic Ballast (420LTCP)                     | Mod. Rapid Start | Normal         | Series      | DIY             | 4                |

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Ballasts

| Product Code                                              | Description         | Application                                                  | Starting Method   | Ballast Factor | Lamp Wiring | Package Type    | Units Per Carton |
|-----------------------------------------------------------|---------------------|--------------------------------------------------------------|-------------------|----------------|-------------|-----------------|------------------|
| <b>MAGNETIC T12, T8, CIRCLELINE® BALLASTS (CONTINUED)</b> |                     |                                                              |                   |                |             |                 |                  |
| 86206                                                     | GEM240-IS-277-IP    | 2- F40T12 F40T10 IS 277V<br>Magnetic Ballast (532BRTCP)      | Instant Start     | Normal         | Series      | Individual Pack | 6                |
| 89707                                                     | GEM240-RS-120-DIY   | 2- F40T12 F40T10 120V<br>Magnetic Ballast (446LSLHTCP)       | Rapid Start       | Normal         | Series      | Pallet Pack     | 72               |
| 46958                                                     | GEM240-RS-120-DIY   | 2 F40T12 F40T10 120V Magnetic Ballast                        | Rapid Start       | Normal         | Series      | DIY             | 6                |
| 86139                                                     | GEM240-RS-120-IP    | 2- F40T12 RS 120V Magnetic Ballast (446LSLHTCP)              | Rapid Start       | Normal         | Series      | Individual Pack | 10               |
| 89713                                                     | GEM240-RS-277-DIY   | 2- F40T12 F40T10 277V<br>Magnetic Ballast (443LSLHTCP)       | Rapid Start       | Normal         | Series      | DIY             | 4                |
| 86124                                                     | GEM240-RS-277-IP    | 2- F40T12 RS 277V Magnetic Ballast (443LSLHTCP)              | Rapid Start       | Normal         | Series      | Individual Pack | 10               |
| 86341                                                     | GEM240-RS-220       | 2- F40T12 F40T10 220V Magnetic Ballast (754LTCP)             | Rapid Start       | Normal         | Series      | Standard        | 10               |
| 86176                                                     | GEM272HO-RS-120     | 2- F72T12HO RS 120V Magnetic Ballast (490XLHTCP)             | Rapid Start       | Normal         | Series      | Individual Pack | 4                |
| 89718                                                     | GEM296HO-RS-120-DIY | 2- F96T12HO F72T12HO 120V<br>Magnetic Ballast (480SLHTCP)    | Rapid Start       | Normal         | Series      | DIY             | 2                |
| 86164                                                     | GEM296HO-RS-120-IP  | 2- F96T12HO F72T12HO RS 120V<br>Magnetic Ballast (480SLHTCP) | Rapid Start       | Normal         | Series      | DIY             | 4                |
| 86171                                                     | GEM296HO-RS-2772    | F96T12 HO RS 277V Magnetic Ballast (487SLHTCP)               | Rapid Start       | Normal         | Series      | Individual Pack | 4                |
| 89708                                                     | GEM296-IS-120-DIY2  | F96T12 IS 120V Magnetic Ballast (806SLHTCP)                  | Instant Start     | Normal         | Series      | Pallet Pack     | 48               |
| 46965                                                     | GEM296-IS-120-DIY2  | F96T12 IS 120V Magnetic Ballast 60 HBCB                      | Instant Start     | Normal         | Series      | DIY             | 4                |
| 86360                                                     | GEM296-IS-120-IP2   | F96T12 IS 120V Magnetic Ballast (806SLHTCP)                  | Instant Start     | Normal         | Series      | Individual Pack | 6                |
| 89715                                                     | GEM296-IS-277-DIY2  | F96T12 IS 277V Magnetic Ballast (827SLHTCP)                  | Instant Start     | Normal         | Series      | DIY             | 4                |
| 86379                                                     | GEM296-IS-277-IP2   | F96T12 IS 277V Magnetic Ballast (827SLHTCP)                  | Instant Start     | Normal         | Series      | Individual Pack | 6                |
| <b>MAGNETIC T12 SIGN BALLASTS</b>                         |                     |                                                              |                   |                |             |                 |                  |
| 88921                                                     | USB-0412-12-IP      | 04 to 12 foot 1 to 2 lamps                                   | Rapid Start       | Normal         | Series      | Individual Pack | 4                |
| 88931                                                     | USB-0816-14-IP      | 08 to 16 feet 1 to 4 lamps                                   | Rapid Start       | Normal         | Series      | Individual Pack | 4                |
| 88934                                                     | USB-1632-24-IP      | 16 to 32 feet 2 to 4 lamps                                   | Rapid Start       | Normal         | Series      | Individual Pack | 2                |
| 88936                                                     | USB-1024-14-IP      | 10 to 24 feet 1 to 4 lamps                                   | Rapid Start       | Normal         | Series      | Individual Pack | 2                |
| 88939                                                     | USB-2036-46-IP      | 20 to 36 feet 4 to 6 lamps                                   | Rapid Start       | Normal         | Series      | Individual Pack | 2                |
| 88940                                                     | USB-2048-46-IP      | 20 to 48 feet 4 to 6 lamps                                   | Rapid Start       | Normal         | Series      | Individual Pack | 2                |
| <b>MAGNETIC T12 SIGN MAX-3 SERIES BALLASTS</b>            |                     |                                                              |                   |                |             |                 |                  |
| 88918                                                     | USB-0218-16-IP      | Max 3 02 to 18 feet 1 to 6 lamps                             | Rapid Start       | Normal         | Series      | Individual Pack | 2                |
| 88919                                                     | USB-1048-16-IP      | Max 3 10 to 48 feet 1 to 6 lamps                             | Rapid Start       | Normal         | Series      | Individual Pack | 2                |
| 88920                                                     | USB-1232-16-IP      | Max 3 12 to 32 feet 1 to 6 lamps                             | Rapid Start       | Normal         | Series      | Individual Pack | 2                |
| <b>MAGNETIC BALLASTS FOR COMPACT FLUORESCENT LAMPS</b>    |                     |                                                              |                   |                |             |                 |                  |
| 87533                                                     | GEM1CF13-PH-120     | 1- CFT/Q13W/GX23 Pre Heat 120 (4111H2P)                      | Preheat           | Normal         | Series      | Standard        | 20               |
| 87623                                                     | GEM2FT36-RS-120     | 2- FT36W/2G11 RS 120 (4150P)                                 | Rapid Start       | Normal         | Series      | Standard        | 10               |
| 87625                                                     | GEM2FT40-RS-120     | 2- FT40W/2G11RS RS 120 (4152P)                               | Rapid Start       | Normal         | Series      | Standard        | 10               |
| 87634                                                     | GEM1CF579-PH-277    | 1- CFT579Q9W/G23 Pre Heat 277 (4205F2P)                      | Preheat           | Normal         | Series      | Standard        | 20               |
| 87655                                                     | GEM2CF13-PH-277     | 2- CFT/Q13W/GX23 Pre Heat 277 (4214PBES)                     | Preheat           | Normal         | Series      | Standard        | 10               |
| 87700                                                     | GEM2CF24-PH-277     | 2- CFQ26W/G24d Pre Heat 277 (4226PBES)                       | Preheat           | Normal         | Parallel    | Standard        | 10               |
| <b>ELECTRONIC BALLASTS FOR COMPACT FLUORESCENT LAMPS</b>  |                     |                                                              |                   |                |             |                 |                  |
| 80669                                                     | C213UNVBE-IP        | 2 or 1- CFQ13W/G24q PS UNV Bottom Exit                       | Prog. Rapid Start | Normal         | Series      | Individual Pack | 10               |
| 80671                                                     | C213UNVBES-IP       | 2 or 1- CFQ13W/G24q PS UNV Bottom Exit w/ Studs              | Prog. Rapid Start | Normal         | Series      | Individual Pack | 10               |
| 80673                                                     | C213UNVSE-IP        | 2 or 1- CFQ13W/G24q PS UNV<br>Side Exit (most common)        | Prog. Rapid Start | Normal         | Series      | Individual Pack | 10               |
| 80675                                                     | C218UNVBEIP         | 2 or 1- CFQ18W/G24q PS UNV Bottom Exit                       | Prog. Rapid Start | Normal         | Series      | Individual Pack | 10               |
| 80677                                                     | C218UNVBES-IP       | 2 or 1- CFQ18W/G24q PS UNV Bottom Exit w/ Studs              | Prog. Rapid Start | Normal         | Series      | Individual Pack | 10               |
| 80679                                                     | C218UNVSE-IP        | 2 or 1- CFQ18W/G24q PS UNV<br>Side Exit (most common)        | Prog. Rapid Start | Normal         | Series      | Individual Pack | 10               |
| 80683                                                     | C240PUNVHP-B-IP     | 2 or 1- FT40W/2G11 PS UNV                                    | Prog. Rapid Start | Normal         | Series      | Individual Pack | 10               |
| 80680                                                     | C240SI120RH-IP      | 2- FT40W/2G11 IS 120                                         | Instant Start     | Normal         | Series      | Individual Pack | 10               |
| 80681                                                     | C240SI277RH-IP      | 2- FT40W/2G11- IS 277                                        | Instant Start     | Normal         | Series      | Individual Pack | 10               |



| Product Code                                                           | Description      | Application                                                 | Starting Method        | Ballast Factor | Lamp Wiring        | Package Type    | Units Per Carton |
|------------------------------------------------------------------------|------------------|-------------------------------------------------------------|------------------------|----------------|--------------------|-----------------|------------------|
| <b>ELECTRONIC BALLASTS FOR COMPACT FLUORESCENT LAMPS (CONTINUED)</b>   |                  |                                                             |                        |                |                    |                 |                  |
| 47506                                                                  | C242UNVBES-IP    | 2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/ Studs | Prog. Rapid Start      | Normal         | Series             | Individual Pack | 10               |
| 47509                                                                  | C242UNVSE-IP     | 2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Side Exit            | Prog. Rapid Start      | Normal         | Series             | Individual Pack | 10               |
| 80685                                                                  | C2642UNVBE-IP    | 2 or 1- CF 26 42w PS UNV                                    | Prog. Rapid Start      | Normal         | Series             | Individual Pack | 10               |
| 80687                                                                  | C2642UNVBES-IP   | 2 or 1- CF 26 42w PS UNV                                    | Prog. Rapid Start      | Normal         | Series             | Individual Pack | 10               |
| 80689                                                                  | C2642UNVSE-IP    | 1/2 CF 26 42W PS UNV 60 HBXX                                | Prog. Rapid Start      | Normal         | Series             | Individual Pack | 10               |
| 80690                                                                  | C340SI120RH-IP   | 3- FT40W/2G11 IS 120                                        | Instant Start          | Normal         | Series             | Individual Pack | 10               |
| 80691                                                                  | C340SI277RH-IP   | 3- FT40W/2G11 IS 277                                        | Instant Start          | Normal         | Series             | Individual Pack | 10               |
| <b>ELECTRONIC HID</b>                                                  |                  |                                                             |                        |                |                    |                 |                  |
| 29377                                                                  | GE-MH-250-400-MA | 1- 250 to 400w UltraMax HID Electronic 208-277 50-60Hz      | M155, M154, M153, M131 | Electronic     |                    | Standard Pack   | 1                |
| Product Code                                                           | Description      | Application*                                                | ANSI Lamp/ Ballast     | Circuit Type   | Frame Size (H x L) | Package Type    | Units Per Carton |
| <b>DISTRIBUTOR REPLACEMENT BALLAST KITS - METAL HALIDE</b>             |                  |                                                             |                        |                |                    |                 |                  |
| 86824                                                                  | M50MLTLC3M500K   | 1- 50w MH M110 or M148 Quad                                 | M110                   | HX-HPF         | 3x4                | Distributor Kit | 6                |
| 86847                                                                  | M70MLTLC3M500K   | 1- 70w MH M 98 or M143 Quad                                 | M98                    | HX-HPF         | 3x4                | Distributor Kit | 6                |
| 86839                                                                  | M7048TLC3M500K   | 1- 70w MH M 98 or M143 480                                  | M98                    | HX-HPF         | 3x4                | Distributor Kit | 6                |
| 86675                                                                  | M100MLTLC3M500K  | 1- 100w MH M 90 or M140 Quad                                | M90, M92, M140         | HX-HPF         | 4.25x5.75          | Distributor Kit | 6                |
| 86667                                                                  | M10048TLC3M500K  | 1- 100w MH M 90 or M140 480                                 | M90, M92, M140         | HX-HPF         | 3x4                | Distributor Kit | 6                |
| 86718                                                                  | M150MLTLC3M500K  | 1- 150w MH M102 or M142 Quad                                | M102, M142             | HX-HPF         | 3x4                | Distributor Kit | 6                |
| 86711                                                                  | M15048TLC3M500K  | 1- 150w MH M102 or M142 480                                 | M102, M142, M107       | HX-HPF         | 3x4                | Distributor Kit | 6                |
| 86741                                                                  | M175MLTAC3M500K  | 1- 175w MH M 57 or H 39 Quad                                | M57, H39, M107         | CWA            | 3x4                | Distributor Kit | 6                |
| 87210                                                                  | M175ML5AC3M500K  | 1- 175w MH M 57 or H 39 Multi-5 for all voltages            | M57, H39, M109         | CWA            | 3x4                | Distributor Kit | 6                |
| 86765                                                                  | M250MLTAC3M500K  | 1- 250w MH M 58 or H 37 Quad                                | M58, H37               | CWA            | 3x4                | Distributor Kit | 6                |
| 87211                                                                  | M250ML5AC3M500K  | 1- 250w MH M 58 or H 37 Multi-5 small standard frame        | M58, H37               | CWA            | 3x4                | Distributor Kit | 6                |
| 49763                                                                  | M250ML5AC3M555K  | 1- 250w MH M 58 or H 37 Multi-5 with Lamp (555K)            | M58, H37               | CWA            | 3x4                | Distributor Kit | 1                |
| 87212                                                                  | M250ML5AC4M500K  | 1- 250w MH M 58 or H 37 Multi-5 large frame                 | M59, H33               | CWA            | 4.25x4.75          | Distributor Kit | 3                |
| 49742                                                                  | M250ML5AC4M555K  | 1- 250w MH M 58 or H 37 Multi-5 with Lamp (555K)            | M59, H33               | CWA            | 4.25x4.75          | Distributor Kit | 1                |
| 86814                                                                  | M400MLTAC4M500K  | 1- 400w MH M 59 or H 33 Quad                                | M59, H33               | CWA            | 4.25x4.75          | Distributor Kit | 3                |
| 86803                                                                  | M40048TAC4M500K  | 1- 400w MH M 59 or H 33 480                                 | M59, H33               | CWA            | 4.25x4.75          | Distributor Kit | 3                |
| 86808                                                                  | M400ML5AC4M500K  | 1- 400w MH M 59 or H 33 Multi-5 for all voltages            | M58, H37               | CWA            | 4.25x4.75          | Distributor Kit | 3                |
| 49745                                                                  | M400ML5AC4M555K  | 1- 400w MH M 59 or H 33 Multi-5 with Lamp (555K)            | M58, H37               | CWA            | 4.25x4.75          | Distributor Kit | 1                |
| 86650                                                                  | M100048TAC5M500K | 1- 1000w MH M 47 or H 36 480                                | M47, H36               | CWA            | 4.25x5.75          | Distributor Kit | 2                |
| 86655                                                                  | M1000MLTAC5M500K | 1- 1000w MH M 47 or H 36 Quad                               | M47, H36               | CWA            | 4.25x5.75          | Distributor Kit | 2                |
| 87213                                                                  | M1000ML5AC5M500K | 1- 1000w MH M 47 or H 36 Multi-5 for all voltages           | M47, H36               | CWA            | 4.25x5.75          | Distributor Kit | 2                |
| 86698                                                                  | M1500MLTAC5M500K | 1- 1500w MH M 48 Quad                                       | M48                    | CWA            | 4.25x5.75          | Distributor Kit | 2                |
| 86693                                                                  | M150048TAC5M500K | 1- 1500w MH M 48 480                                        | M48                    | CWA            | 4.25x5.75          | Distributor Kit | 2                |
| <b>DISTRIBUTOR REPLACEMENT BALLAST KITS - PULSE START METAL HALIDE</b> |                  |                                                             |                        |                |                    |                 |                  |
| 86876                                                                  | P17548TAC3M500K  | 1- 175w PS M137 or M152 480                                 | M152, M137             | CWA            | 3x4                | Distributor Kit | 6                |
| 86885                                                                  | P175MLTAC3M500K  | 1- 175w PS M137 or M 152 Quad                               | M153, M 137            | CWA            | 3x4                | Distributor Kit | 6                |
| 86926                                                                  | P25048TAC4M500K  | 1- 250w PS M138 or M153 480                                 | M153, M138             | CWA            | 4.25x4.75          | Distributor Kit | 3                |
| 86935                                                                  | P250MLTAC4M500K  | 1- 250w PS M138 or M153 Quad                                | M153, M138             | CWA            | 4.25x4.75          | Distributor Kit | 3                |
| 86952                                                                  | P32048TAC4M500K  | 1- 320w PS M132 or M154 480                                 | M154, M132             | CWA            | 4.25x4.75          | Distributor Kit | 3                |
| 86968                                                                  | P320TRIAC4M502K  | 1- 320w PS M132 or M154 TRI-Voltage 120 277 347             | M154, M132             | CWA            | 4.25x4.75          | Distributor Kit | 3                |
| 86959                                                                  | P320MLTAC4M500K  | 1- 320w PS M132 or 154 Quad                                 | M154, M132             | CWA            | 4.25x4.75          | Distributor Kit | 3                |
| 86984                                                                  | P350MLTAC4M500K  | 1- 350w PS M131 Quad                                        | M131                   | CWA            | 4.25x4.75          | Distributor Kit | 3                |
| 42692                                                                  | P350277RC5M500K  | 1- 350w PS M131 277 Reactor                                 | M131                   | RX-NPF         | 3.75x4.5           | Distributor Kit | 3                |
| 86999                                                                  | P40048TAC4M500K  | 1- 400w PS M135 now M155 480                                | M155, M135             | CWA            | 4.25x4.75          | Distributor Kit | 3                |

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Ballasts

| Product Code                                                                       | Description      | Application*                                    | ANSI Lamp/Ballast | Circuit Type | Frame Size (H x L) | Package Type    | Units Per Carton |
|------------------------------------------------------------------------------------|------------------|-------------------------------------------------|-------------------|--------------|--------------------|-----------------|------------------|
| <b>DISTRIBUTOR REPLACEMENT BALLAST KITS - PULSE START METAL HALIDE (CONTINUED)</b> |                  |                                                 |                   |              |                    |                 |                  |
| 87008                                                                              | P400MLTAC4M500K  | 1- 400w PS M135 or M155 Quad                    | M155,M135         | CWA          | 4.25x4.75          | Distributor Kit | 3                |
| 46934                                                                              | P750MLTAC5M500K  | 1-750w PS M149 Quad                             | M149              | CWA          | 4.25x5.75          | Distributor Kit | 2                |
| 46936                                                                              | P75048TAC5M500K  | 1-750w PS M149 480                              | M149              | CWA          | 4.25x5.75          | Distributor Kit | 2                |
| <b>DISTRIBUTOR REPLACEMENT BALLAST KITS - HIGH PRESSURE SODIUM</b>                 |                  |                                                 |                   |              |                    |                 |                  |
| 87152                                                                              | S50MLTLC3M500K   | 1- 50w S68 Quad                                 | S68               | HX-HPF       | 3x4                | Distributor Kit | 6                |
| 86587                                                                              | S70MLTLC3M500K   | 1- 70w S62 Quad                                 | S62               | HX-HPF       | 3x4                | Distributor Kit | 6                |
| 86456                                                                              | S7048TLC3M500K   | 1- 70w S62 480                                  | S62               | HX-HPF       | 3x4                | Distributor Kit | 6                |
| 87074                                                                              | S100MLTLC3M500K  | 1- 100w S54 Quad                                | S54               | HX-HPF       | 3x4                | Distributor Kit | 6                |
| 87068                                                                              | S10048TLC3M500K  | 1- 100w S54 480                                 | S54               | HX-HPF       | 3x4                | Distributor Kit | 6                |
| 87094                                                                              | S150MLTLC3M500K  | 1- 150w S55 Quad                                | S55               | HX-HPF       | 3x4                | Distributor Kit | 6                |
| 87087                                                                              | S15048TLC3M500K  | 1- 150w S55 480                                 | S55               | HX-HPF       | 3x4                | Distributor Kit | 6                |
| 87214                                                                              | S250ML5AC4M500K  | 1- 250w S50 Multi-5 for all voltages            | S50               | CWA          | 4.25x4.75          | Distributor Kit | 3                |
| 49757                                                                              | S250ML5AC4M555K  | 1- 250w S50 Multi-5 with Lamp (555K)            | S50               | CWA          | 4.25x4.75          | Distributor Kit | 1                |
| 87121                                                                              | S250MLTAC4M500K  | 1- 250w S50 Quad                                | S50               | CWA          | 4.25x4.75          | Distributor Kit | 3                |
| 87164                                                                              | S400MLTAC4M500K  | 1- 400w S51 Quad smaller standard frame         | S51               | CWA          | 4.25x4.75          | Distributor Kit | 3                |
| 87175                                                                              | S400MLTAC5M500K  | 1- 400w S51 Quad                                | S51               | CWA          | 4.25x5.75          | Distributor Kit | 2                |
| 87217                                                                              | S400ML5AC5M500K  | 1- 400w S51 Multi-5 for all voltages            | S51               | CWA          | 4.25x5.75          | Distributor Kit | 2                |
| 49758                                                                              | S400ML5AC4M555K  | 1- 400w S51 Multi-5 with lamp (555K)            | S52               | CWA          | 4.25x4.75          | Distributor Kit | 1                |
| 87215                                                                              | S400ML5AC4M500K  | 1- 400w S51 Multi-5 in smaller standard frame   | S51               | CWA          | 4.25x4.75          | Distributor Kit | 3                |
| 87198                                                                              | S40048TAC4M500K  | 1- 400w S51 480 in smaller frame                | S51               | CWA          | 4.25x4.75          | Distributor Kit | 3                |
| 87206                                                                              | S40048TAC5M500K  | 1- 400w S51 480                                 | S51               | CWA          | 4.25x5.75          | Distributor Kit | 2                |
| 87056                                                                              | S1000MLTAC5M500K | 1- 1000w S52 Quad                               | S52               | CWA          | 4.25x5.75          | Distributor Kit | 2                |
| 87048                                                                              | S100048TAC5M500K | 1- 1000w S52 480                                | S52               | CWA          | 4.25x5.75          | Distributor Kit | 2                |
| 87218                                                                              | S1000ML5AC5M500K | 1- 1000w S52 Multi-5 for all voltages           | S52               | CWA          | 4.25x5.75          | Distributor Kit | 2                |
| <b>DISTRIBUTOR REPLACEMENT BALLAST KITS - MERCURY</b>                              |                  |                                                 |                   |              |                    |                 |                  |
| 86519                                                                              | H100MLTAC3M500K  | 1- 100w H36 Quad                                | H38, H44          | CWA          | 3x4                | Distributor Kit | 6                |
| 86527                                                                              | H175MLTAC3M500K  | 1- 175w H39 Quad                                | H39               | CWA          | 3x4                | Distributor Kit | 6                |
| 86542                                                                              | H400MLTAC4M500K  | 1- 400w H39 Quad                                | H33               | CWA          | 4.25x4.75          | Distributor Kit | 3                |
| <b>METAL HALIDE</b>                                                                |                  |                                                 |                   |              |                    |                 |                  |
| 86576                                                                              | 11210277CTC000C  | 1- 70w M85 120/277 Enclosed & Potted            | M85               | HX-HPF       | 0                  | Standard        | 4                |
| 86578                                                                              | 11210506CTC000C  | 1- 70w M98 120/277 Enclosed & Potted            | M98               | HX-HPF       | 0                  | Standard        | 4                |
| 86574                                                                              | 11210239CTC000I  | 1- 100w M90 120/277 Enclosed & Potted           | M90               | HX-HPF       | 0                  | Standard        | 4                |
| 86563                                                                              | 1110245SCTC000I  | 1- 175w M57 120/277 Enclosed & Potted           | M57, H39          | CWA          | 0                  | Standard        | 2                |
| 86564                                                                              | 1110246CTC000C   | 1- 250w M58 120/277 Enclosed & Potted           | M58, H37          | CWA          | 0                  | Standard        | 2                |
| 42670                                                                              | 1110-247SC-TC    | 1- 400w M59 120/277 Enclosed & Potted F-can     | M59, H33          | CWA          | 0                  | Standard        | 2                |
| 80728                                                                              | 1111-247SCTC000I | 1- 400w M59 120/277 Enclosed & Potted           | M59, H33          | CWA          | 0                  | Standard        | 4                |
| <b>HIGH PRESSURE SODIUM</b>                                                        |                  |                                                 |                   |              |                    |                 |                  |
| 86605                                                                              | 1233142U000I     | 1- 70w S62 120 Reactor-NPF                      | S62               | R-NPF        | 0                  | Standard        | 6                |
| 86596                                                                              | 12210237CTC000I  | 1- 70w S62 120/277 E & P F-can built-in starter | S62               | HX-HPF       | 0                  | Standard        | 4                |
| 86606                                                                              | 1233154U000I     | 1- 150w S55 120 Reactor-NPF                     | S55               | R-NPF        | 0                  | Standard        | 6                |

\*Quad = 120V, 208V, 240V, 277V  
Multi 5 = 120V, 208V, 240V, 277V, 480V



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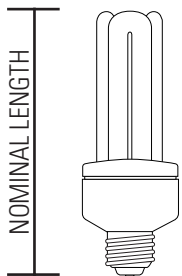
**CROSS REFERENCE..... 5-16**

**GE ENHANCED PLUG-IN PRODUCT CONVERSION ..... 5-18**



# Compact Fluorescent Lamps

## BULB IDENTIFICATION



### NOMINAL LENGTH:

Overall length including base or pins.

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

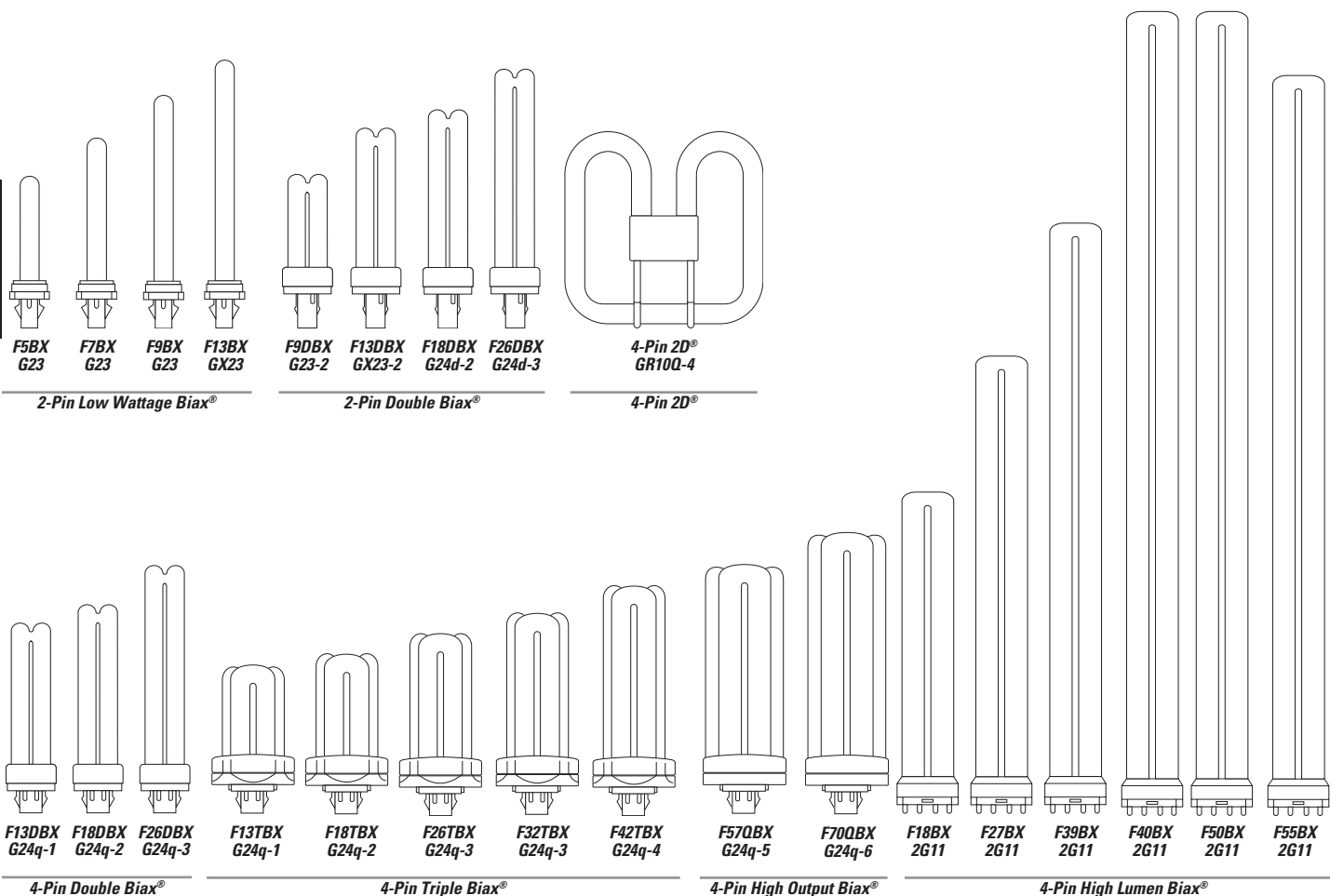
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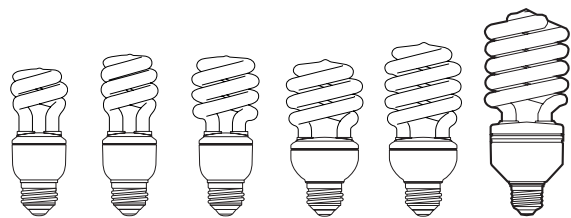
## LAMP LOCATOR



### Plug-in Lamps

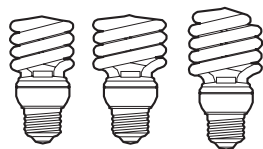


## Compact Fluorescent Lamps



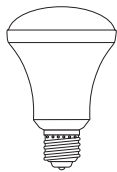
**FLE10HT3 Med** **FLE13HT3 Med** **FLE15HT3 Med** **FLE20HT3 Med** **FLE26HT3 Med** **FLE42HLX Med**

**Spiral®**



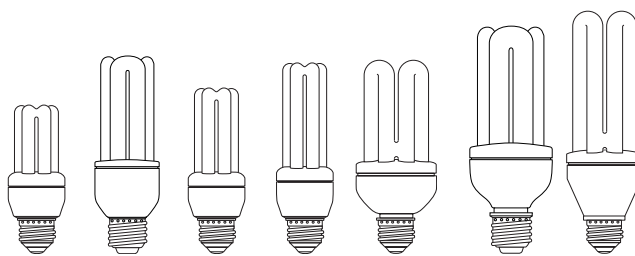
**FLE10HT2 Med** **FLE13HT2 Med** **FLE15HT2 Med**

**Spiral®**



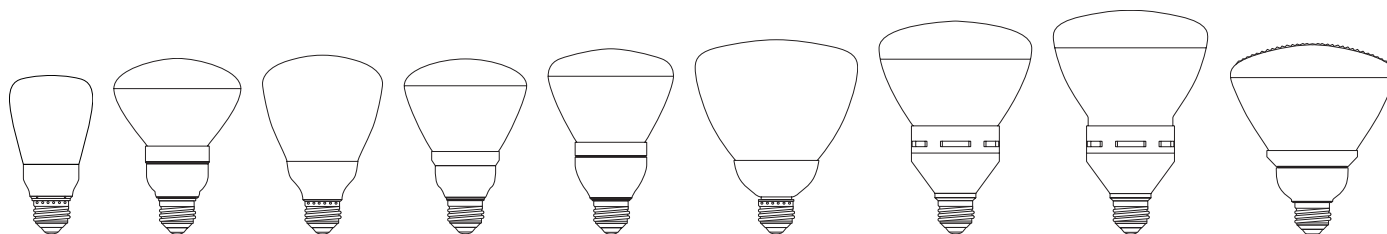
**EL23 Med**

**Genura®**



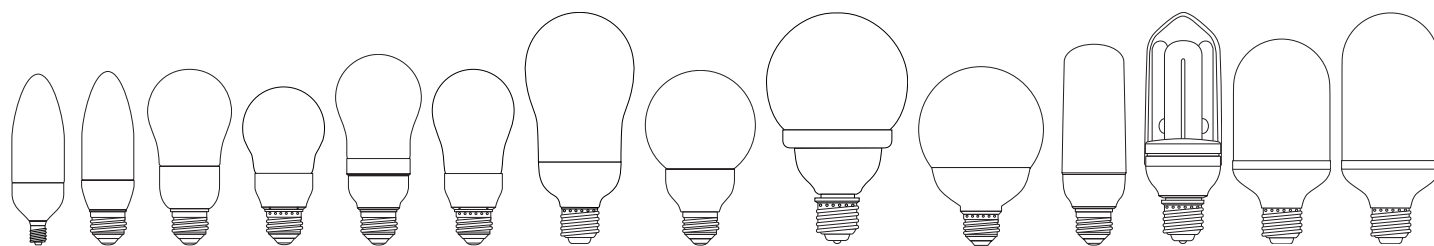
**FLE12TT3 Med** **FLE14TT3 Med** **FLE15TT3 Med** **FLE20TT3 Med** **FLE24QBX Med** **FLE28QBX Med** **FLE29QBX Med**

**Biax®**



**FLE11/R20 Med** **FLE11/R30 Med** **FLE15/A2/R30 Med** **FLE15/R30 Med** **FLE15/R30 Dimming Med** **FLE23/A4/R40 Med** **FLE26/R40 Med** **FLE26/R40 Dimming Med** **FLE26/PAR38 Med**

**Reflectors**



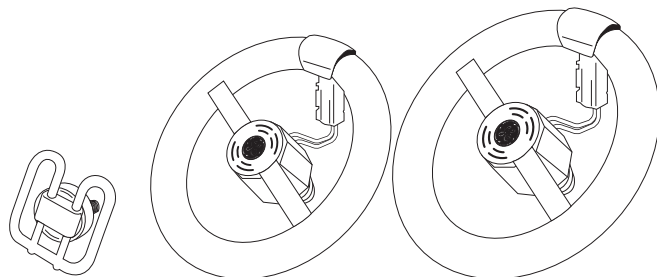
**Candle E12** **Candle Med** **FLE11/A-Line Med** **FLE12/A-Line Med** **FLE14/A-Line Med** **FLE15/A-Line Med** **FLE20/A-Line Med** **FLE9/Globe Med** **FLE15TBX/Globe Med** **FLE15/A3/Globe Med** **FLE11/Post Light Med** **FLE15/Post Light Med** **FLE15TBX/Bullet Med** **FLE20TBX/Bullet Med**

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**FEA 2D Med**

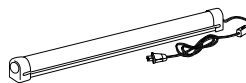
**FCA21 Med**

**FEA30 Med**

**2D®-Electronic**

**Circlite®**

**Lamps and Adapters**



**FBS25**

**Bright Stik®**



# Compact Fluorescent Lamps

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## BASE IDENTIFICATION



**G23-2  
(DBX2P)**



**GX23-2  
(DBX2P)**



**G24d-1  
(DBX2P)**



**G24d-2  
(DBX2P)**



**G24d-3  
(DBX2P)**



**G23  
(LWBX)**



**GX23  
(LWBX)**



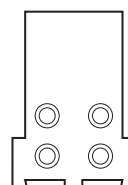
**G24q-1  
(DBX4P)**



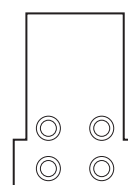
**G24q-2  
(DBX4P)**



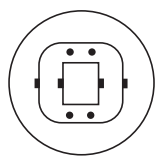
**G24q-3  
(DBX4P)**



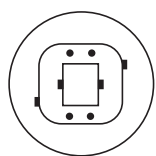
**GRY10q-3  
(2D4P)**



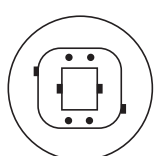
**GR10q-4  
(2D4P)**



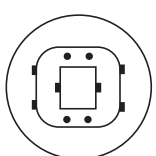
**GX24q-1  
(TBX4P)**



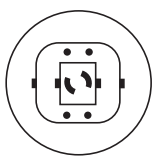
**GX24q-2  
(TBX4P)**



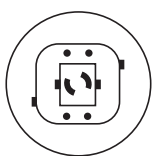
**GX24q-3  
(TBX4P)**



**GX24q-4  
(QBX4P)**



**GX24q-5  
(QBX4P)**



**GX24q-6  
(QBX4P)**



**2G11-4  
(HLBX)**



**E26  
Med Screw**



**E12  
Candelabra**

## INTRODUCTION

GE Compact Fluorescent Lamps offer many advantages:

- Dramatic energy cost savings... up to 77% vs. incandescent lamps of comparable light output
- Extra long life... most last 8 to 10 times longer, and some last up to 20 times longer, than standard incandescent lamps
- High light output comparable, and in some cases exceeding, incandescent lamps replaced
- Excellent color rendering... rare earth tri-phosphor provides such high quality color you won't believe it's fluorescent. Most types offer a choice of color options, from warm to cool, to let you select the tone and atmosphere you need.
- A choice of wattages, shapes and sizes to meet your lighting needs. Designed to fit everything from table lamps to wall sconces and ceiling fixtures.
- Many lamps use amalgam technology which provides stable lumen performance when operated in any position, over a wider range of ambient temperatures.

## COMPACT FLUORESCENT BRAND NAME CROSS-REFERENCE

| GE                | OSRAM/SYLVANIA  | PHILIPS  |
|-------------------|-----------------|----------|
| 2D®               | -               | -        |
| Biax®             | Dulux® S        | PL-S     |
| High Lumen Biax®  | Dulux® L        | PL-L     |
| Double Biax®      | Dulux® D, D/E   | PL-C     |
| Triple Biax®      | Dulux® T/E      | PL-T     |
| Quad Biax®        | -               | -        |
| High Output Biax® | -               | PL-H     |
| Spiral®           | Dulux® EL Twist | EL Twist |
| Genura®           | Dura-One        | -        |

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturer's performance specifications should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.



## PRODUCT INFORMATION

### PLUG-IN LAMPS

#### **2-Pin Low Wattage Biax® (pg 5-7)**

- Compact size offers fixture and design flexibility
- GX23 and G23 bases are preheat lamps with internal starters
- 13 watt version also available with internal electronic starter, providing flicker-free instant on
- Available in warm and cool color temperatures
- TCLP Compliant

#### **4-Pin High Lumen Biax® (pgs 5-7 to 5-8)**

- Available in a range of sizes and wattages for innovative compact luminaires
- High efficiency and outstanding performance in fixtures make them ideal for 2X2, 1X1 and indirect fixtures
- Available in warm to cool color temperatures; excellent color rendering

#### **2-Pin Double Biax® (pg 5-8)**

- More compact than low wattage Biax® CFLs with higher lumen output - suitable for a broad range of applications
- Preheat lamps with starters; not suitable for use with dimming ballasts
- 26 watt version also available with internal electronic starter, providing flicker-free instant on
- Available in warm to cool color temperatures
- TCLP Compliant

#### **4-Pin Double Biax® (pg 5-8)**

- More compact than low wattage Biax® CFLs with higher lumen output - suitable for a broad range of applications
- Dimmable and compatible with electronic ballasts
- Available in warm to cool color temperatures
- TCLP Compliant

#### **4-Pin Triple Biax® (pgs 5-8 to 5-9)**

- GE's shortest, most compact Biax® lamp. 17-31% shorter than similar wattage Double Biax® lamps.
- 4-Pin, dimmable and compatible with electronic ballasts
- Available in a wide range of wattages: from 13 to 42 watts
- Available in warm to cool color temperatures
- TCLP Compliant

#### **4-Pin High Output Biax® (pg 5-9)**

- GE's highest light output compact fluorescent lamps
- High efficacy 72-75 LPW
- Dimmable, available in 5 colors (2,700 to 5,000K)
- Suitable for high-bay lighting
- TCLP Compliant

#### **4-Pin 2D® (pgs 5-9)**

- Unique shape suitable for broad range of applications
- Uniform light distribution
- High light output - up to 200W incandescent equivalent

### SELF-BALLASTED LAMPS

#### **Spiral® (pgs 5-10 to 5-11)**

- Long life - up to 12,000 hours
- One piece unit screws directly into incandescent sockets
- Wide variety of wattages to meet application needs
- T2 & T3 Spiral® CFLs provide economical solution with small overall size
- The 42-watt T4 Spiral® CFL provides a 150W incandescent replacement in the smallest possible size (fits an 8.5" harp)

#### **Biax® (pg 5-11)**

- Super long life - from 10,000 to 15,000 hour rating
- One piece unit screws directly into incandescent sockets
- Wide variety of wattages to meet application needs
- T3 Mini Biax® CFL provides longest life with smallest overall size
- Selected lamps offer 3-way or dimming functionality

#### **Reflectors (pgs 5-11 to 5-12)**

- R20, R30 and R40 glass reflectors available to meet application needs
- Medium based; fits most incandescent reflector applications
- R30 and R40 lamps available with dimming functionality

#### **Genura® (pg 5-12)**

- Extremely long life - rated life of 15,000 hours
- One piece unit screws directly into incandescent sockets
- Provides more light than 75W incandescent reflector lamps
- Electrodeless design

#### **Decorative Shapes (pgs 5-12 to 5-13)**

- Variety of shapes (A-Line, Bullet, Candle, Globe, and Post) and wattages to meet all needs
- One piece unit screws directly into incandescent sockets
- Candle-shaped CFLs available in both medium base and candelabra base

### LAMPS AND ADAPTERS

#### **Circlite® (pg 5-13)**

- Lamp and adapter are separate. Replaceable lamps plug into adapters that screw into standard incandescent sockets.
- Lamps last 10,000 hours; adapters last 40,000 hours (4 lamp lives)

#### **2D®-Electronic (pg 5-13)**

- Lamp and adapter are separate. Replaceable lamps plug into adapters that screw into standard incandescent sockets.
- Lamps last 10,000 hours; adapters last 40,000 hours (4 lamp lives)



# Compact Fluorescent Lamps

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## HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Compact Fluorescent lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage.

### Light Output - Mean Lumens:

Lamp light output (lumens) at 40% of rated lamp life.

### Light Output - Initial Lumens:

Light output (as defined by FTC Lamp Label Rules) is rated average lumens.

### Energy Used - Nominal Watts:

Energy Used (as defined by FTC lamp label rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

### Rated Life

@ 12hrs. per start

### Rated Life - Hours:

Life (as defined by FTC Lamp Label Rules) is rated life in hours.

### Color Temperature - Kelvins (K):

A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears.

### Color Rendering Index (CRI or R<sub>a</sub>):

An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

### Minimum Starting Temperature:

The minimum ambient temperature at which the lamp will start reliably.

### Power Factor (PF):

A measure of power quality. The ratio of total watts to total volt-amperes. A value of 1.0 is ideal.

### Total Harmonic Distortion (THD):

A measure (in percent) of power quality. Indicates the distortion of the alternating current wave form. Low values (<20%) are preferred.

### Additional Information:

Typical application and/or other important information.

### Footnotes:

Related footnotes, see page 5-14.

### Warning Notices:

Related warnings, see pages 5-14 to 5-15.

**Base:**  
The type of base.

### Nominal Length:

Lamp length including base and/or pins.

### Case Quantity:

Number of product units packed in a case.

### Order Code:

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

### Volt:

Rated voltage.

### Description:

The lamp's identification code.

| Nominal Length Order |       |     | Description | Case Qty        | Rated Life |       | Lumens |         | Color Temp. |      | Min. Start Temp. Power |      | Additional Information | Warning Notices | Footnotes                                                    |        |              |
|----------------------|-------|-----|-------------|-----------------|------------|-------|--------|---------|-------------|------|------------------------|------|------------------------|-----------------|--------------------------------------------------------------|--------|--------------|
| Base                 | Watts | in. |             |                 | Code       | Hours | Volt   | Initial | Mean        | K.   | CRI                    | (°F) |                        |                 |                                                              | Factor | THD          |
| SELF-BALLASTED LAMPS |       |     |             |                 |            |       |        |         |             |      |                        |      |                        |                 |                                                              |        |              |
| SPIRAL®              |       |     |             |                 |            |       |        |         |             |      |                        |      |                        |                 |                                                              |        |              |
| Med                  | 42    | 6.4 | 16107       | FLE42HLX/VT/827 | 10         | 120   | 10000  | 2650    | 2275        | 2700 | 82                     | 14   | 0.6                    | 170             | BASE DOWN OPERATION ONLY, T4 Spiral®, RE 827 Phosphor, Boxed | 154    | 1, 7, 10, 15 |

**FL E 42 HLX / VT / 827**

Identifies as  
Fluorescent Lamp

Identifies wattage

Electronically  
ballasted

Identifies additional  
information  
(Vented, Table Lamp)

Identifies lamp shape

Identifies lamp's  
finish or color

## WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 5-4.
4. Find your lamp in the table containing the bulb shape, size and base.

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## Compact Fluorescent Lamps

| Base                           | Nominal Length Order | Watts in. | Code  | Description       | Case Qty. | Volt  | Rated Life Hours | Rated Life 12 Hrs. | Lumens Initial Mean | Color Temp. K | Min. Start Temp. (°F) | CRI | Additional Information      | Warning Notice | Footnotes |
|--------------------------------|----------------------|-----------|-------|-------------------|-----------|-------|------------------|--------------------|---------------------|---------------|-----------------------|-----|-----------------------------|----------------|-----------|
| <b>PLUG-IN LAMPS</b>           |                      |           |       |                   |           |       |                  |                    |                     |               |                       |     |                             |                |           |
| <b>2-PIN LOW WATTAGE BIAx®</b> |                      |           |       |                   |           |       |                  |                    |                     |               |                       |     |                             |                |           |
|                                | 5                    | 4.2       | 97551 | F5BX/827/ECO      | 100       | 10000 | 265              | 220                | 2700                | 82            |                       |     |                             | 151            | 1,2       |
|                                |                      |           | 97552 | F5BX/827/CDECO    | 6         | 10000 | 265              | 220                | 2700                | 82            |                       |     | Carded                      | 151            | 1,2       |
|                                |                      |           | 97553 | F5BX/841/ECO      | 100       | 10000 | 265              | 220                | 4100                | 82            |                       |     |                             | 151            | 1,2       |
|                                | 7                    | 5.3       | 97554 | F7BX/827/ECO      | 100       | 10000 | 425              | 350                | 2700                | 82            |                       |     |                             | 151            | 1,2       |
|                                |                      |           | 97555 | F7BX/827/CDECO    | 6         | 10000 | 425              | 350                | 2700                | 82            |                       |     | Carded                      | 151            | 1,2       |
|                                |                      |           | 97556 | F7BX/835/ECO      | 100       | 10000 | 425              | 350                | 3500                | 82            |                       |     |                             | 151            | 1,2       |
|                                | 9                    | 6.6       | 97557 | F7BX/841/ECO      | 100       | 10000 | 425              | 350                | 4100                | 82            |                       |     |                             | 151            | 1,2       |
|                                |                      |           | 97558 | F9BX/827/ECO      | 100       | 10000 | 600              | 500                | 2700                | 82            |                       |     |                             | 151            | 1,2       |
|                                |                      |           | 97559 | F9BX/827/CDECO    | 6         | 10000 | 600              | 500                | 2700                | 82            |                       |     | Carded                      | 151            | 1,2       |
|                                |                      |           | 97560 | F9BX/835/ECO      | 100       | 10000 | 600              | 500                | 3500                | 82            |                       |     |                             | 151            | 1,2       |
|                                |                      |           | 97561 | F9BX/841/ECO      | 100       | 10000 | 600              | 500                | 4100                | 82            |                       |     |                             | 151            | 1,2       |
|                                | 13                   | 7.0       | 97573 | F13BX/827/ECO     | 100       | 10000 | 825              | 710                | 2700                | 82            |                       |     |                             | 151            | 1,2       |
|                                |                      |           | 97567 | F13BX/827/CDECO   | 6         | 10000 | 825              | 710                | 2700                | 82            |                       |     | Carded                      | 151            | 1,2       |
|                                |                      |           | 97574 | F13BX/830/ECO     | 100       | 10000 | 825              | 710                | 3000                | 82            |                       |     |                             | 151            | 1,2       |
|                                |                      |           | 97569 | F13BX/835/ECO     | 100       | 10000 | 825              | 710                | 3500                | 82            |                       |     |                             | 151            | 1,2       |
|                                |                      |           | 97568 | F13BX/835 100P    | 100       | 10000 | 825              | 710                | 3500                | 82            |                       |     | Bulk Pack                   | 151            | 1,2       |
|                                |                      |           | 97571 | F13BX/841/ECO     | 100       | 10000 | 825              | 710                | 4100                | 82            |                       |     |                             | 151            | 1,2       |
|                                |                      |           | 97570 | F13BX/841 100P    | 100       | 10000 | 825              | 710                | 4100                | 82            |                       |     | Bulk Pack                   | 151            | 1,2       |
|                                |                      |           | 97572 | F13BX/850/ECO     | 100       | 10000 | 785              | 675                | 5000                | 80            |                       |     |                             | 151            | 1,2       |
|                                |                      |           | 97562 | F13BX/E/827/ECO   | 100       | 10000 | 825              | 710                | 2700                | 82            |                       |     | Internal Electronic Starter | 151            | 1,2       |
|                                |                      |           | 97563 | F13BX/E/830/ECO   | 100       | 10000 | 825              | 710                | 3000                | 82            |                       |     | Internal Electronic Starter | 151            | 1,2       |
|                                |                      |           | 97564 | F13BX/E/835/ECO   | 100       | 10000 | 825              | 710                | 3500                | 82            |                       |     | Internal Electronic Starter | 151            | 1,2       |
|                                |                      |           | 97565 | F13BX/E/841/ECO   | 100       | 10000 | 825              | 710                | 4100                | 82            |                       |     | Internal Electronic Starter | 151            | 1,2       |
|                                |                      |           | 97566 | F13BX/E/850/ECO   | 100       | 10000 | 785              | 675                | 5000                | 80            |                       |     | Internal Electronic Starter | 151            | 1,2       |
|                                |                      |           |       |                   |           |       |                  |                    |                     |               |                       |     |                             |                |           |
| <b>4-PIN HIGH LUMEN BIAx®</b>  |                      |           |       |                   |           |       |                  |                    |                     |               |                       |     |                             |                |           |
|                                | 18                   | 9.0       | 16649 | F18BX/SPX30 10PK  | 40        | 10000 | 1200             | 1080               | 3000                | 82            | -4                    |     |                             | 151            | 1,2,4,6   |
|                                |                      |           | 16053 | F18BX/SPX35 10PK  | 40        | 10000 | 1200             | 1080               | 3500                | 82            | -4                    |     |                             | 151            | 1,2,4,6   |
|                                |                      |           | 16940 | F18BX/SPX41 10PK  | 40        | 10000 | 1200             | 1080               | 4100                | 82            | -4                    |     |                             | 151            | 1,2,4,6   |
|                                | 10.5                 |           | 17174 | F18BX/SPX30/RS    | 40        | 20000 | 1250             | 1130               | 3000                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                |                      |           | 17175 | F18BX/SPX35/RS    | 40        | 20000 | 1250             | 1130               | 3500                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                |                      |           | 17176 | F18BX/SPX41/RS    | 40        | 20000 | 1250             | 1130               | 4100                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                | 27                   | 12.8      | 12521 | F18BX/SPX65/RS    | 40        | 20000 | 1160             | 1050               | 6500                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                |                      |           | 16944 | F27BX/SPX30/RS    | 40        | 12000 | 1800             | 1620               | 3000                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                |                      |           | 16948 | F27BX/SPX35/RS    | 40        | 12000 | 1800             | 1620               | 3500                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                | 39                   | 16.5      | 16951 | F27BX/SPX41/RS    | 40        | 12000 | 1800             | 1620               | 4100                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                |                      |           | 16538 | F39BX/SPX30/RS    | 40        | 12000 | 2850             | 2510               | 3000                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                |                      |           | 15867 | F39BX/SPX35/RS    | 40        | 12000 | 2850             | 2510               | 3500                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                | 40                   | 22.5      | 16952 | F39BX/SPX41/RS    | 40        | 12000 | 2850             | 2510               | 4100                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                |                      |           | 16953 | F40/30BX/SPX30    | 40        | 20000 | 3150             | 2840               | 3000                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                |                      |           | 20444 | F40/30BX/SPX30-36 | 36        | 20000 | 3150             | 2840               | 3000                | 82            | 10                    |     | Bulk Pack                   | 151            | 1,2,6,13  |
|                                | 50                   | 22.5      | 16648 | F40/30BX/SPX35    | 40        | 20000 | 3150             | 2840               | 3500                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                |                      |           | 20446 | F40/30BX/SPX35-36 | 36        | 20000 | 3150             | 2840               | 3500                | 82            | 10                    |     | Bulk Pack                   | 151            | 1,2,6,13  |
|                                |                      |           | 16954 | F40/30BX/SPX41    | 40        | 20000 | 3150             | 2840               | 4100                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                | 55                   | 20.7      | 20447 | F40/30BX/SPX41-36 | 36        | 20000 | 3150             | 2840               | 4100                | 82            | 10                    |     | Bulk Pack                   | 151            | 1,2,6,13  |
|                                |                      |           | 10490 | F40/30BX/SPX50RS  | 36        | 20000 | 2900             | 2700               | 5000                | 80            | 10                    |     | Bulk Pack                   | 151            | 1,2,6,13  |
|                                |                      |           | 20898 | F50BX/SPX30/RS    | 40        | 14000 | 4000             | 3400               | 3000                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                |                      |           | 20899 | F50BX/SPX35/RS    | 40        | 14000 | 4000             | 3400               | 3500                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                |                      |           | 20900 | F50BX/SPX41/RS    | 40        | 14000 | 4000             | 3400               | 4100                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                |                      |           | 31951 | F55BX/830         | 25        | 10000 | 4800             | 4080               | 3000                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                |                      |           | 31952 | F55BX/835         | 25        | 10000 | 4800             | 4080               | 3500                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |
|                                |                      |           | 31953 | F55BX/840         | 25        | 10000 | 4800             | 4080               | 4100                | 82            | 10                    |     |                             | 151            | 1,2,6,13  |

For the most up-to-date product information, see [www.gelighting.com](http://www.gelighting.com). To convert inches to millimeters, multiply by 25.4.

All footnote references found at the end of this section. ⚡ Reduced Wattage ⚡ High Color Rendering ⚡ TLCP Compliant Plug-Ins ⚡ EOL Protection Plug-Ins ⚡ Energy Star Screw-Ins



# Compact Fluorescent Lamps

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| Base                               | Nominal<br>Length<br>Watts in. | Order<br>Code | Description             | Case<br>Qty. | Rated<br>Life<br>Hours | Rated<br>Life<br>12 Hrs. | Lumens<br>Initial Mean | Color<br>Temp.<br>K | CRI | Min. Start<br>Temp.<br>(°F) | Additional Information |                               | Warning<br>Notice | Footnotes   |
|------------------------------------|--------------------------------|---------------|-------------------------|--------------|------------------------|--------------------------|------------------------|---------------------|-----|-----------------------------|------------------------|-------------------------------|-------------------|-------------|
| PLUG-IN LAMPS (CONTINUED)          |                                |               |                         |              |                        |                          |                        |                     |     |                             |                        |                               |                   |             |
| 4-PIN HIGH LUMEN BIAx® (CONTINUED) |                                |               |                         |              |                        |                          |                        |                     |     |                             |                        |                               |                   |             |
| G211                               | 55                             | 20.7          | 45851 F55BX/AR/FS 6PK   | 6            | 10000                  |                          | 4800 4080              | 9325                | 67  | 10                          |                        | Fresh and Salt Water Phosphor | 151               | 1,2,6,13    |
|                                    |                                |               | 45859 F55BX/AR/FS/BULK  | 25           | 10000                  |                          | 4800 4080              | 9325                | 67  | 10                          |                        | Fresh and Salt Water Phosphor | 151               | 1,2,6,13    |
| 2-PIN DOUBLE BIAx®                 |                                |               |                         |              |                        |                          |                        |                     |     |                             |                        |                               |                   |             |
| G23-2                              | 9                              | 4.3           | 97576 F9DBX23/827/ECO   | 50           | 10000                  |                          | 550 470                | 2700                | 82  |                             |                        |                               | 151               | 1,2,17      |
|                                    |                                |               | 97575 F9DBX23/841/ECO   | 50           | 10000                  |                          | 550 470                | 4100                | 82  |                             |                        |                               | 151               | 1,2,17      |
| GX23-2                             | 13                             | 4.7           | 97586 F13DBX23/827/ECO  | 50           | 10000                  |                          | 810 685                | 2700                | 82  |                             |                        |                               | 151               | 1,2,17      |
|                                    |                                |               | 97585 F13DBX/827/CD     | 6            | 10000                  |                          | 810 685                | 2700                | 82  |                             |                        | Carded                        | 151               | 1,2,17      |
|                                    |                                |               | 97587 F13DBX23/830/ECO  | 50           | 10000                  |                          | 810 685                | 3000                | 82  |                             |                        |                               | 151               | 1,2,17      |
|                                    |                                |               | 97588 F13DBX23/835/ECO  | 50           | 10000                  |                          | 810 685                | 3500                | 82  |                             |                        |                               | 151               | 1,2,17      |
|                                    |                                |               | 97589 F13DBX23/841/ECO  | 50           | 10000                  |                          | 810 685                | 4100                | 82  |                             |                        |                               | 151               | 1,2,17      |
|                                    |                                |               |                         |              |                        |                          |                        |                     |     |                             |                        |                               |                   |             |
| G24d-1                             | 13                             | 5.3           | 97590 F13DBX/827/ECO    | 50           | 10000                  |                          | 900 755                | 2700                | 82  |                             |                        |                               | 151               | 1,2,17      |
|                                    |                                |               | 97591 F13DBX/830/ECO    | 50           | 10000                  |                          | 900 755                | 3000                | 82  |                             |                        |                               | 151               | 1,2,17      |
|                                    |                                |               | 97592 F13DBX/835/ECO    | 50           | 10000                  |                          | 900 755                | 3500                | 82  |                             |                        |                               | 151               | 1,2,17      |
|                                    |                                |               | 97593 F13DBX/841/ECO    | 50           | 10000                  |                          | 900 755                | 4100                | 82  |                             |                        |                               | 151               | 1,2,17      |
| G24d-2                             | 18                             | 6.1           | 97577 F18DBX/827/ECO    | 50           | 10000                  |                          | 1200 980               | 2700                | 82  |                             |                        |                               | 151               | 1,2,5,17    |
|                                    |                                |               | 97578 F18DBX/830/ECO    | 50           | 10000                  |                          | 1200 980               | 3000                | 82  |                             |                        |                               | 151               | 1,2,5,17    |
|                                    |                                |               | 97579 F18DBX/835/ECO    | 50           | 10000                  |                          | 1200 980               | 3500                | 82  |                             |                        |                               | 151               | 1,2,5,17    |
|                                    |                                |               | 97580 F18DBX/841/ECO    | 50           | 10000                  |                          | 1200 980               | 4100                | 82  |                             |                        |                               | 151               | 1,2,5,17    |
| G24d-3                             | 26                             | 6.7           | 97606 F26DBX/827/ECO    | 50           | 10000                  |                          | 1710 1460              | 2700                | 82  |                             |                        |                               | 151               | 1,2,17      |
|                                    |                                |               | 97607 F26DBX/830/ECO    | 50           | 10000                  |                          | 1710 1460              | 3000                | 82  |                             |                        |                               | 151               | 1,2,17      |
|                                    |                                |               | 97608 F26DBX/835/ECO    | 50           | 10000                  |                          | 1710 1460              | 3500                | 82  |                             |                        |                               | 151               | 1,2,17      |
|                                    |                                |               | 97609 F26DBX/841/ECO    | 50           | 10000                  |                          | 1710 1460              | 4100                | 82  |                             |                        |                               | 151               | 1,2,17      |
|                                    |                                |               | 97602 F26DBX/E/827/ECO  | 50           | 10000                  |                          | 1710 1460              | 2700                | 82  |                             |                        | Internal Electronic Starter   | 151               | 1,2,15,17   |
|                                    |                                |               | 97603 F26DBX/E/830/ECO  | 50           | 10000                  |                          | 1710 1460              | 3000                | 82  |                             |                        | Internal Electronic Starter   | 151               | 1,2,15,17   |
|                                    |                                |               | 97604 F26DBX/E/835/ECO  | 50           | 10000                  |                          | 1710 1460              | 3500                | 82  |                             |                        | Internal Electronic Starter   | 151               | 1,2,15,17   |
|                                    |                                |               | 97605 F26DBX/E/841/ECO  | 50           | 10000                  |                          | 1710 1460              | 4100                | 82  |                             |                        | Internal Electronic Starter   | 151               | 1,2,15,17   |
| 4-PIN DOUBLE BIAx®                 |                                |               |                         |              |                        |                          |                        |                     |     |                             |                        |                               |                   |             |
| G24q-1                             | 13                             | 5.0           | 97594 F13DBX/827/ECO4P  | 50           | 12000                  | 20000                    | 900 755                | 2700                | 82  |                             |                        |                               | 151               | 1,2,6,17    |
|                                    |                                |               | 97595 F13DBX/830/ECO4P  | 50           | 12000                  | 20000                    | 900 755                | 3000                | 82  |                             |                        |                               | 151               | 1,2,6,17    |
|                                    |                                |               | 97596 F13DBX/835/ECO4P  | 50           | 12000                  | 20000                    | 900 755                | 3500                | 82  |                             |                        |                               | 151               | 1,2,6,17    |
|                                    |                                |               | 97597 F13DBX/841/ECO4P  | 50           | 12000                  | 20000                    | 900 755                | 4100                | 82  |                             |                        |                               | 151               | 1,2,6,17    |
| G24q-2                             | 18                             | 5.8           | 97598 F18DBX/827/ECO4P  | 50           | 12000                  | 20000                    | 1200 970               | 2700                | 82  |                             |                        |                               | 151               | 1,2,5,6,17  |
|                                    |                                |               | 97599 F18DBX/830/ECO4P  | 50           | 12000                  | 20000                    | 1200 970               | 3000                | 82  |                             |                        |                               | 151               | 1,2,5,6,17  |
|                                    |                                |               | 97600 F18DBX/835/ECO4P  | 50           | 12000                  | 20000                    | 1200 970               | 3500                | 82  |                             |                        |                               | 151               | 1,2,5,6,17  |
|                                    |                                |               | 97601 F18DBX/841/ECO4P  | 50           | 12000                  | 20000                    | 1200 970               | 4100                | 82  |                             |                        |                               | 151               | 1,2,5,6,17  |
| G24q-3                             | 26                             | 6.4           | 97610 F26DBX/827/ECO4P  | 50           | 12000                  | 20000                    | 1710 1440              | 2700                | 82  |                             |                        |                               | 151               | 1,2,6,17    |
|                                    |                                |               | 97611 F26DBX/830/ECO4P  | 50           | 12000                  | 20000                    | 1710 1440              | 3000                | 82  |                             |                        |                               | 151               | 1,2,6,17    |
|                                    |                                |               | 97612 F26DBX/835/ECO4P  | 50           | 12000                  | 20000                    | 1710 1440              | 3500                | 82  |                             |                        |                               | 151               | 1,2,6,17    |
|                                    |                                |               | 97613 F26DBX/841/ECO4P  | 50           | 12000                  | 20000                    | 1710 1440              | 4100                | 82  |                             |                        |                               | 151               | 1,2,6,17    |
| 4-PIN TRIPLE BIAx®                 |                                |               |                         |              |                        |                          |                        |                     |     |                             |                        |                               |                   |             |
| GX24q-1                            | 13                             | 4.2           | 97623 F13TBX/827/4P/ECO | 10           | 12000                  | 20000                    | 900 755                | 2700                | 82  |                             |                        | Non-Amalgam                   | 151               | 1,2,6,17    |
|                                    |                                |               | 97619 F13TBX/827/A/ECO  | 10           | 12000                  | 20000                    | 900 755                | 2700                | 82  |                             |                        |                               | 151               | 1,2,6,12,17 |
|                                    |                                |               | 97620 F13TBX/830/A/ECO  | 10           | 12000                  | 20000                    | 900 755                | 3000                | 82  |                             |                        |                               | 151               | 1,2,6,12,17 |
|                                    |                                |               | 97621 F13TBX/835/A/ECO  | 10           | 12000                  | 20000                    | 900 755                | 3500                | 82  |                             |                        |                               | 151               | 1,2,6,12,17 |
|                                    |                                |               | 97622 F13TBX/841/A/ECO  | 10           | 12000                  | 20000                    | 900 755                | 4100                | 82  |                             |                        |                               | 151               | 1,2,6,12,17 |
| GX24q-2                            | 18                             | 4.8           | 97628 F18TBX/827/4P/ECO | 10           | 12000                  | 20000                    | 1200 1010              | 2700                | 82  |                             |                        | Non-Amalgam                   | 151               | 1,2,6,12,17 |
|                                    |                                |               | 97624 F18TBX/827/A/ECO  | 10           | 12000                  | 20000                    | 1200 1010              | 2700                | 82  |                             |                        |                               | 151               | 1,2,6,12,17 |
|                                    |                                |               | 97625 F18TBX/830/A/ECO  | 10           | 12000                  | 20000                    | 1200 1010              | 3000                | 82  |                             |                        |                               | 151               | 1,2,6,12,17 |
|                                    |                                |               | 97626 F18TBX/835/A/ECO  | 10           | 12000                  | 20000                    | 1200 1010              | 3500                | 82  |                             |                        |                               | 151               | 1,2,6,12,17 |

**New Product Codes.** (These product codes will be available September 2006. Until that time, use order code found on page 5-18).

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## Compact Fluorescent Lamps

| Base                                                                               | Nominal Length | Order  | Description             | Case Qty. | Rated Life Hours | Rated Life 12 Hrs. | Lumens Initial Mean | Color Temp. K. | Min. Start Temp. (°F) | Additional Information                                                                                                                                                                                                                                                                                                                                                                                                                       | Warning Notice | Footnotes   |
|------------------------------------------------------------------------------------|----------------|--------|-------------------------|-----------|------------------|--------------------|---------------------|----------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|
| PLUG-IN LAMPS (CONTINUED)                                                          |                |        |                         |           |                  |                    |                     |                |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |             |
| <b>4-PIN TRIPLE BIAx® (CONTINUED)</b>                                              |                |        |                         |           |                  |                    |                     |                |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |             |
|     | GX24q-2        | 18 4.8 | 97627 F18TBX/841/A/ECO  | 10        | 12000            | 20000              | 1200 1020           | 4100           | 82                    |                  | 151            | 1,2,6,12,17 |
|                                                                                    | GX24q-3        | 26 5.2 | 97618 F26TBX/827/4P/ECO | 10        | 12000            | 20000              | 1710 1440           | 2700           | 82                    |      Non-Amalgam | 151            | 1,2,6,17    |
|    |                |        | 97614 F26TBX/827/A/ECO  | 10        | 12000            | 20000              | 1710 1440           | 2700           | 82                    |                  | 151            | 1,2,6,12,17 |
|                                                                                    |                |        | 97615 F26TBX/830/A/ECO  | 10        | 12000            | 20000              | 1710 1440           | 3000           | 82                    |                  | 151            | 1,2,6,12,17 |
|    |                |        | 97616 F26TBX/835/A/ECO  | 10        | 12000            | 20000              | 1710 1440           | 3500           | 82                    |                  | 151            | 1,2,6,12,17 |
|                                                                                    |                |        | 97617 F26TBX/841/A/ECO  | 10        | 12000            | 20000              | 1710 1440           | 4100           | 82                    |                  | 151            | 1,2,6,12,17 |
|     | GX24-q3        | 32 5.5 | 97629 F32TBX/827/A/ECO  | 10        | 12000            | 20000              | 2200 1850           | 2700           | 82                    |                  | 151            | 1,2,6,12,17 |
|                                                                                    |                |        | 97630 F32TBX/830/A/ECO  | 10        | 12000            | 20000              | 2200 1850           | 3000           | 82                    |                  | 151            | 1,2,6,12,17 |
|     |                |        | 97631 F32TBX/835/A/ECO  | 10        | 12000            | 20000              | 2200 1850           | 3500           | 82                    |                  | 151            | 1,2,6,12,17 |
|                                                                                    |                |        | 97632 F32TBX/841/A/ECO  | 10        | 12000            | 20000              | 2200 1850           | 4100           | 82                    |                  | 151            | 1,2,6,12,17 |
|     | GX24-q4        | 42 6.4 | 97633 F42TBX/827/A/ECO  | 10        | 12000            | 20000              | 3200 2690           | 2700           | 82                    |                  | 151            | 1,2,6,12,17 |
|                                                                                    |                |        | 97634 F42TBX/830/A/ECO  | 10        | 12000            | 20000              | 3200 2690           | 3000           | 82                    |                  | 151            | 1,2,6,12,17 |
|     |                |        | 97635 F42TBX/835/A/ECO  | 10        | 12000            | 20000              | 3200 2690           | 3500           | 82                    |                  | 151            | 1,2,6,12,17 |
|                                                                                    |                |        | 97636 F42TBX/841/A/ECO  | 10        | 12000            | 20000              | 3200 2690           | 4100           | 82                    |                  | 151            | 1,2,6,12,17 |
| <b>4-PIN HIGH OUTPUT BIAx®</b>                                                     |                |        |                         |           |                  |                    |                     |                |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |             |
|  | GX24q-5        | 57 7.1 | 48861 F57QBX/827/A/ECO  | 10        | 12000            | 20000              | 4300 3700           | 2700           | 82                    |        | 151            | 1,2,6,12,17 |
|                                                                                    |                |        | 48862 F57QBX/830/A/ECO  | 10        | 12000            | 20000              | 4300 3700           | 3000           | 82                    |        | 151            | 1,2,6,12,17 |
|  |                |        | 48863 F57QBX/835/A/ECO  | 10        | 12000            | 20000              | 4300 3700           | 3500           | 82                    |        | 151            | 1,2,6,12,17 |
|                                                                                    |                |        | 48864 F57QBX/841/A/ECO  | 10        | 12000            | 20000              | 4300 3700           | 4100           | 82                    |        | 151            | 1,2,6,12,17 |
|  |                |        | 93404 F57QBX/850/A/ECO  | 10        | 12000            | 20000              | 4300 3700           | 5000           | 82                    |        | 151            | 1,2,6,12,17 |
|                                                                                    | GX24q-6        | 70 8.2 | 48865 F70QBX/827/A/ECO  | 10        | 12000            | 20000              | 5200 4470           | 2700           | 82                    |        | 151            | 1,2,6,12,17 |
|  |                |        | 48866 F70QBX/830/A/ECO  | 10        | 12000            | 20000              | 5200 4470           | 3000           | 82                    |        | 151            | 1,2,6,12,17 |
|                                                                                    |                |        | 48867 F70QBX/835/A/ECO  | 10        | 12000            | 20000              | 5200 4470           | 3500           | 82                    |        | 151            | 1,2,6,12,17 |
|  |                |        | 48868 F70QBX/841/A/ECO  | 10        | 12000            | 20000              | 5200 4470           | 4100           | 82                    |        | 151            | 1,2,6,12,17 |
|                                                                                    |                |        | 93406 F70QBX/850/A/ECO  | 10        | 12000            | 20000              | 5200 4470           | 5000           | 82                    |        | 151            | 1,2,6,12,17 |
| <b>4-PIN 2D®</b>                                                                   |                |        |                         |           |                  |                    |                     |                |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |             |
|  | GR10q-4        | 10 3.6 | 21301 F102D/827/4P      | 60        | 10000            |                    | 650 545             | 2700           | 82                    |                                                                                                                                                                                                                                                                       | 151            | 1,2,3,6     |
|                                                                                    |                | 16 5.5 | 22169 F162D/827/4P      | 50        | 10000            |                    | 1050 880            | 2700           | 82                    |                                                                                                                                                                                                                                                                       | 151            | 1,2,3,6     |
|  |                |        | 22177 F162D/835/4P      | 50        | 10000            |                    | 1050 880            | 3500           | 82                    |                                                                                                                                                                                                                                                                       | 151            | 1,2,3,6     |
|                                                                                    |                | 21 5.5 | 21303 F212D/827/4P      | 50        | 10000            |                    | 1350 1135           | 2700           | 82                    |                                                                                                                                                                                                                                                                       | 151            | 1,2,3,6     |
|  |                |        | 22178 F212D/835/4P      | 50        | 10000            |                    | 1350 1135           | 3500           | 82                    |                                                                                                                                                                                                                                                                       | 151            | 1,2,3,6     |
|                                                                                    |                | 28 8.1 | 22172 F282D/827/4P      | 20        | 10000            |                    | 2050 1720           | 2700           | 82                    |                                                                                                                                                                                                                                                                       | 151            | 1,2,3,6     |
|  |                |        | 22180 F282D/835/4P      | 20        | 10000            |                    | 2050 1720           | 3500           | 82                    |                                                                                                                                                                                                                                                                       | 151            | 1,2,3,6     |
|                                                                                    |                | 38 8.1 | 21305 F382D/827/4P      | 20        | 10000            |                    | 2850 2395           | 2700           | 82                    |                                                                                                                                                                                                                                                                       | 151            | 1,2,3,6     |
|  |                |        | 25427 F38/2D/827/4P/CD  | 5         | 10000            |                    | 2850 2395           | 2700           | 82                    |   Carded                                                                                                                                                                                                                                                              | 151            | 1,2,3,6     |
|                                                                                    |                |        | 22181 F382D/835/4P      | 20        | 10000            |                    | 2850 2395           | 3500           | 82                    |                                                                                                                                                                                                                                                                       | 151            | 1,2,3,6     |
|  | GRY10q-3       | 55 8.1 | 37525 F552D/827/A/4P/B  | 48        | 10000            |                    | 3900 3300           | 2700           | 82                    |   Bulk Pack                                                                                                                                                                                                                                                           | 151            | 1,2,3,6     |
|                                                                                    |                |        | 36358 F552D/830A/T4P/B  | 20        | 10000            |                    | 4000 3400           | 3000           | 82                    |   Torchiere Replacement Lamp                                                                                                                                                                                                                                          | 151            | 1,2,3,6     |
|  |                |        | 40184 F552D/830/4P/CD   | 5         | 10000            |                    | 4000 3400           | 3000           | 82                    |   Torchiere Replacement Lamp, Carded                                                                                                                                                                                                                                  | 151            | 1,2,3,6     |
|                                                                                    |                |        | 37529 F552D/835/A/4P/B  | 48        | 10000            |                    | 3900 3300           | 3500           | 82                    |   Bulk Pack                                                                                                                                                                                                                                                           | 151            | 1,2,3,6     |

 **New Product Codes.** (These product codes will be available September 2006. Until that time, use order code found on page 5-18).

For the most up-to-date product information, see [www.gelighting.com](http://www.gelighting.com). To convert inches to millimeters, multiply by 25.4.

All footnote references found at the end of this section.  Reduced Wattage  High Color Rendering  TLCP Compliant Plug-Ins  EOL Protection Plug-Ins  Energy Star Screw-Ins



# Compact Fluorescent Lamps

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|                                                                                    | Nominal<br>Length Order | Base Watts | in.   | Code                 | Description          | Case<br>Qty | Rated<br>Life<br>Hours | Lumens<br>Initial | Mean | Color<br>Temp.<br>K | CRI  | Min. Start<br>Temp. Power<br>(°F) Factor THD | Additional Information                                                                                                                                                                                                                                      | Warning<br>Notices                                                                                                                                                                                                                                    | Footnotes                      |             |            |
|------------------------------------------------------------------------------------|-------------------------|------------|-------|----------------------|----------------------|-------------|------------------------|-------------------|------|---------------------|------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------|------------|
| SELF-BALLASTED LAMPS                                                               |                         |            |       |                      |                      |             |                        |                   |      |                     |      |                                              |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                       |                                |             |            |
| SPIRAL®                                                                            |                         |            |       |                      |                      |             |                        |                   |      |                     |      |                                              |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                       |                                |             |            |
|    | Med                     | 10         | 4.4   | 15829                | FLE10HT3/2/827       | 10          | 120                    | 8000              | 520  | 420                 | 2700 | 82                                           | 5 0.6 120                                                                                                                                                                                                                                                   |    | T3 Spiral®, Boxed              | 153         | 1,7,8,9,10 |
|                                                                                    |                         |            |       | 49906                | FLE10HLX/2/SW/CD     | 12          | 120                    | 8000              | 520  | 420                 | 2700 | 82                                           | 5 0.6 120                                                                                                                                                                                                                                                   |    | T3 Spiral®, Carded Single Pack | 153         | 1,7,8,9,10 |
|                                                                                    |                         |            |       | 49907                | FLE10HLX/2/SW/CD/2PK | 3           | 120                    | 8000              | 520  | 420                 | 2700 | 82                                           | 5 0.6 120                                                                                                                                                                                                                                                   |    | T3 Spiral®, Carded Twin Pack   | 153         | 1,7,8,9,10 |
|    | 10                      | 4.7        | 25182 | FLE10HT3/2/841       | 10                   | 120         | 8000                   | 520               | 420  | 4100                | 82   | 5 0.6 120                                    |          | T3 Spiral®, Boxed                                                                                                                                                                                                                                     | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 85393 | FLE10HT3/2/D/2PK     | 3                    | 120         | 8000                   | 500               | 400  | 6500                | 82   | 5 0.6 120                                    |          | T3 Spiral®, Carded Twin Pack                                                                                                                                                                                                                          | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 80936 | FLE10HT3/2/XL        | 10                   | 120         | 12000                  | 550               | 440  | 2700                | 82   | 5 0.6 120                                    |          | T3 Spiral®, Boxed                                                                                                                                                                                                                                     | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 47430 | FLE10HT3/2/XL/CD     | 12                   | 120         | 12000                  | 550               | 440  | 2700                | 82   | 5 0.6 120                                    |          | T3 Spiral®, Carded Single Pack                                                                                                                                                                                                                        | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 49671 | FLE10HT3/2/XL2PK     | 3                    | 120         | 12000                  | 550               | 440  | 2700                | 82   | 5 0.6 120                                    |          | T3 Spiral®, Carded Twin Pack                                                                                                                                                                                                                          | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 86241 | FLE10HT2/2/827       | 10                   | 120         | 12000                  | 580               | 464  | 2700                | 82   | 5 0.6 120                                    |          | T2 Spiral®, Boxed                                                                                                                                                                                                                                     | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 85382 | FLE10HT2/2/SW/CD     | 12                   | 120         | 12000                  | 580               | 464  | 2700                | 82   | 5 0.6 120                                    |          | T2 Spiral®, Carded Single Pack                                                                                                                                                                                                                        | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 85389 | FLE10HT2/2/SW2PK     | 3                    | 120         | 12000                  | 580               | 464  | 2700                | 82   | 5 0.6 120                                    |          | T2 Spiral®, Carded Twin Pack                                                                                                                                                                                                                          | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 16460 | FLE13HT3/2/SW/CD     | 12                   | 120         | 8000                   | 825               | 660  | 2700                | 82   | 5 0.6 120                                    |          | T3 Spiral®, Carded Single Pack                                                                                                                                                                                                                        | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 16459 | FLE13HT3/2/SW/CD/2PK | 3                    | 120         | 8000                   | 825               | 660  | 2700                | 82   | 5 0.6 120                                    |          | T3 Spiral®, Carded Twin Pack                                                                                                                                                                                                                          | 153                            | 1,7,8,9,10  |            |
|  | 13                      | 4.7        | 21760 | FLE13HT3/2/10PK      | 10                   | 120         | 8000                   | 825               | 660  | 2700                | 82   | 5 0.6 120                                    |          | T3 Spiral®, Consumer 10 Pack                                                                                                                                                                                                                          | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 86256 | FLE13HT2/2/827       | 10                   | 120         | 8000                   | 870               | 715  | 2700                | 82   | 5 0.6 120                                    |          | T2 Spiral®, Boxed                                                                                                                                                                                                                                     | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 85383 | FLE13HT2/2/SW/CD     | 12                   | 120         | 8000                   | 870               | 715  | 2700                | 82   | 5 0.6 120                                    |          | T2 Spiral®, Carded Single Pack                                                                                                                                                                                                                        | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 85390 | FLE13HT2/2/SW2PK     | 3                    | 120         | 8000                   | 870               | 715  | 2700                | 82   | 5 0.6 120                                    |          | T2 Spiral®, Carded Twin Pack                                                                                                                                                                                                                          | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 15831 | FLE15HT3/2/827       | 10                   | 120         | 8000                   | 950               | 765  | 2700                | 82   | 5 0.6 145                                    |       | T3 Spiral®, Boxed                                                                                                                                                                                                                                     | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 41520 | FLE15HT3/2/SW/CD     | 12                   | 120         | 8000                   | 950               | 765  | 2700                | 82   | 5 0.6 145                                    |       | T3 Spiral®, Carded Single Pack                                                                                                                                                                                                                        | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 41525 | FLE15HT3/2/SW/2PK    | 3                    | 120         | 8000                   | 950               | 765  | 2700                | 82   | 5 0.6 145                                    |       | T3 Spiral®, Carded Twin Pack                                                                                                                                                                                                                          | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 00261 | FLE15HT3/2/SW/3PK    | 3                    | 120         | 8000                   | 950               | 765  | 2700                | 82   | 5 0.6 145                                    |       | T3 Spiral®, Carded 3 Pack                                                                                                                                                                                                                             | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 16252 | FLE15HT3/2/6H/4PK    | 3                    | 120         | 6000                   | 850               | 685  | 2700                | 82   | 5 0.6 145                                    |       | 6000 Hr Life, T3 Spiral®, Boxed Consumer 4 Pack                                                                                                                                                                                                       | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 25183 | FLE15HT3/2/841       | 10                   | 120         | 8000                   | 950               | 765  | 4100                | 82   | 5 0.6 145                                    |    | T3 Spiral®, Boxed                                                                                                                                                                                                                                     | 153                            | 1,7,8,9,10  |            |
|  | 15                      | 4.8        | 85394 | FLE15HT3/2/D/2PK     | 3                    | 120         | 8000                   | 900               | 738  | 6500                | 82   | 5 0.6 145                                    |    | T3 Spiral®, Carded Twin Pack                                                                                                                                                                                                                          | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 80937 | FLE15HT3/2/XL        | 10                   | 120         | 12000                  | 950               | 760  | 2700                | 82   | 5 0.6 145                                    |    | T3 Spiral®, Boxed                                                                                                                                                                                                                                     | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 47435 | FLE15HT3/2/XL/CD     | 12                   | 120         | 12000                  | 950               | 760  | 2700                | 82   | 5 0.6 145                                    |    | T3 Spiral®, Carded Single Pack                                                                                                                                                                                                                        | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 49680 | FLE15HT3/2/XL2PK     | 3                    | 120         | 12000                  | 950               | 760  | 2700                | 82   | 5 0.6 145                                    |    | T3 Spiral®, Carded Twin Pack                                                                                                                                                                                                                          | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 86271 | FLE15HT2/2/827       | 10                   | 120         | 12000                  | 950               | 780  | 2700                | 82   | 5 0.6 145                                    |    | T2 Spiral®, Boxed                                                                                                                                                                                                                                     | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 85385 | FLE15HT2/2/SW/CD     | 12                   | 120         | 12000                  | 950               | 780  | 2700                | 82   | 5 0.6 145                                    |    | T2 Spiral®, Carded Single Pack                                                                                                                                                                                                                        | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 85391 | FLE15HT2/2/SW2PK     | 3                    | 120         | 12000                  | 950               | 780  | 2700                | 82   | 5 0.6 145                                    |    | T2 Spiral®, Carded Twin Pack                                                                                                                                                                                                                          | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 15834 | FLE20HT3/2/827       | 10                   | 120         | 8000                   | 1200              | 965  | 2700                | 82   | 5 0.6 135                                    |    | T3 Spiral®, Boxed                                                                                                                                                                                                                                     | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 15516 | FLE20HT3/2/SW/CD     | 12                   | 120         | 8000                   | 1200              | 965  | 2700                | 82   | 5 0.6 135                                    |    | T3 Spiral®, Carded Single Pack                                                                                                                                                                                                                        | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 15518 | FLE20HT3/2/SW/2PK    | 3                    | 120         | 8000                   | 1200              | 965  | 2700                | 82   | 5 0.6 135                                    |    | T3 Spiral®, Carded Twin Pack                                                                                                                                                                                                                          | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 16253 | FLE20HT3/2/6H/4PK    | 3                    | 120         | 6000                   | 1150              | 925  | 2700                | 82   | 5 0.6 135                                    |    | 6000 Hr Life, T3 Spiral®, Boxed Consumer 4 Pack                                                                                                                                                                                                       | 153                            | 1,7,8,9,10  |            |
|  | 20                      | 4.7        | 25186 | FLE20HT3/2/841       | 10                   | 120         | 8000                   | 1200              | 965  | 4100                | 82   | 5 0.6 135                                    |    | T3 Spiral®, Boxed                                                                                                                                                                                                                                     | 153                            | 1,7,8,9,103 |            |
|                                                                                    |                         |            | 85396 | FLE20HT3/2/D/2PK     | 3                    | 120         | 8000                   | 1150              | 945  | 6500                | 82   | 5 0.6 135                                    |    | T3 Spiral®, Carded Twin Pack                                                                                                                                                                                                                          | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 80888 | FLE20HT3/2/XL        | 10                   | 120         | 12000                  | 1300              | 1040 | 2700                | 82   | 5 0.6 135                                    |    | T3 Spiral®, Boxed                                                                                                                                                                                                                                     | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 47442 | FLE20HT3/2/XL/CD     | 12                   | 120         | 12000                  | 1300              | 1040 | 2700                | 82   | 5 0.6 135                                    |    | T3 Spiral®, Carded Single Pack                                                                                                                                                                                                                        | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 49684 | FLE20HT3/2/XL2PK     | 3                    | 120         | 12000                  | 1300              | 1040 | 2700                | 82   | 5 0.6 135                                    |    | T3 Spiral®, Carded Twin Pack                                                                                                                                                                                                                          | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 47466 | FLE20HT3/2/XL/D      | 12                   | 120         | 12000                  | 1300              | 1040 | 6500                | 82   | 5 0.6 135                                    |    | T3 Spiral®, Carded Single Pack, Daylight                                                                                                                                                                                                              | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 80889 | FLE23HT3/2/XL        | 10                   | 120         | 12000                  | 1600              | 1280 | 2700                | 82   | 5 0.6                                        |    | T3 Spiral®, Boxed                                                                                                                                                                                                                                     | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 47445 | FLE23HT3/2/XL/CD     | 12                   | 120         | 12000                  | 1600              | 1280 | 2700                | 82   | 5 0.6                                        |    | T3 Spiral®, Carded Single Pack                                                                                                                                                                                                                        | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 15836 | FLE26HT3/2/827       | 10                   | 120         | 8000                   | 1750              | 1400 | 2700                | 82   | 5 0.6 120                                    |    | T3 Spiral®, Boxed                                                                                                                                                                                                                                     | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 15517 | FLE26HT3/2/SW/CD     | 12                   | 120         | 8000                   | 1750              | 1400 | 2700                | 82   | 5 0.6 120                                    |    | T3 Spiral®, Carded Single Pack                                                                                                                                                                                                                        | 153                            | 1,7,8,9,10  |            |
|                                                                                    |                         |            | 15519 | FLE26HT3/2/SW/2PK    | 3                    | 120         | 8000                   | 1750              | 1400 | 2700                | 82   | 5 0.6 120                                    |    | T3 Spiral®, Carded Twin Pack                                                                                                                                                                                                                          | 153                            | 1,7,8,9,10  |            |

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## Compact Fluorescent Lamps

|                                         | Nominal<br>Length Order | Base | Watts | in.                | Code              | Description | Case<br>Qty | Volt  | Rated<br>Life<br>Hours | Lumens<br>Initial | Mean | Color<br>Temp.<br>K | CRI | Min. Start<br>Temp. (°F) | Power<br>Factor | THD | Additional Information                                    | Warning<br>Notices | Footnotes     |
|-----------------------------------------|-------------------------|------|-------|--------------------|-------------------|-------------|-------------|-------|------------------------|-------------------|------|---------------------|-----|--------------------------|-----------------|-----|-----------------------------------------------------------|--------------------|---------------|
| <b>SELF-BALLASTED LAMPS (CONTINUED)</b> |                         |      |       |                    |                   |             |             |       |                        |                   |      |                     |     |                          |                 |     |                                                           |                    |               |
| <b>SPIRAL® (CONTINUED)</b>              |                         |      |       |                    |                   |             |             |       |                        |                   |      |                     |     |                          |                 |     |                                                           |                    |               |
|                                         | Med                     | 26   | 5.2   | 00262              | FLE26HT3/2/SW/3PK | 3           | 120         | 8000  | 1750                   | 1400              | 2700 | 82                  | 5   | 0.6                      | 120             |     | T3 Spiral®, Carded 3 Pack                                 | 153                | 1,7,8,9,10    |
|                                         |                         |      |       | 16254              | FLE26HT3/2/6H/4PK | 3           | 120         | 6000  | 1750                   | 1400              | 2700 | 82                  | 5   | 0.6                      | 120             |     | 6000 Hr Life, T3 Spiral®,<br>Boxed Consumer 4 Pack        | 153                | 1,7,8,9,10    |
|                                         |                         |      |       | 21845              | FLE26HT3/2/10PK   | 10          | 120         | 8000  | 1700                   | 1365              | 2700 | 82                  | 5   | 0.6                      | 120             |     | T3 Spiral®, Consumer 10 Pack                              | 153                | 1,7,8,9,10    |
|                                         |                         |      |       | 25195              | FLE26HT3/2/841    | 10          | 120         | 8000  | 1750                   | 1400              | 4100 | 82                  | 5   | 0.6                      | 120             |     | T3 Spiral®, Boxed                                         | 153                | 1,7,8,9,10    |
|                                         |                         |      |       | 85397              | FLE26HT3/2/D/2PK  | 3           | 120         | 8000  | 1600                   | 1315              | 6500 | 82                  | 5   | 0.6                      | 120             |     | T3 Spiral®, Carded Twin Pack                              | 153                | 1,7,8,9,10    |
|                                         |                         |      |       | 80890              | FLE26HT3/2/XL     | 10          | 120         | 12000 | 1700                   | 1360              | 2700 | 82                  | 5   | 0.6                      | 120             |     | T3 Spiral®, Boxed                                         | 153                | 1,7,8,9,10    |
|                                         |                         |      |       | 47446              | FLE26HT3/2/XL/CD  | 12          | 120         | 12000 | 1700                   | 1360              | 2700 | 82                  | 5   | 0.6                      | 120             |     | T3 Spiral®, Carded Single Pack                            | 153                | 1,7,8,9,10    |
|                                         |                         |      |       | 49685              | FLE26HT3/2/XL2PK  | 3           | 120         | 12000 | 1700                   | 1360              | 2700 | 82                  | 5   | 0.6                      | 120             |     | T3 Spiral®, Carded Twin Pack                              | 153                | 1,7,8,9,10    |
|                                         | 29                      | 6.3  | 81514 | FLE29HLX/2/XL/827  | 10                | 120         | 12000       | 2200  | 1760                   | 2700              | 82   | 5                   | 0.6 |                          |                 |     | T4 Spiral®, Boxed                                         | 153                | 1,7,8,9,10    |
|                                         |                         |      | 47459 | FLE29HLX/2/XL/CD   | 12                | 120         | 12000       | 2200  | 1760                   | 2700              | 82   | 5                   | 0.6 |                          |                 |     | T4 Spiral®, Carded Single Pack                            | 153                | 1,7,8,9,10    |
|                                         |                         |      | 81515 | FLE29HLX/2D3/827   | 10                | 120         | 10000       | 600   | 480                    | 2700              | 82   | 5                   | 0.6 |                          |                 |     | T4 Spiral®, Boxed, 3-way                                  | 155                | 1,7,8,9,10    |
|                                         |                         |      |       |                    |                   |             |             | 1600  | 1280                   |                   |      |                     |     |                          |                 |     |                                                           |                    |               |
|                                         |                         |      |       |                    |                   |             |             | 2200  | 1760                   |                   |      |                     |     |                          |                 |     |                                                           |                    |               |
|                                         |                         |      | 47448 | FLE29HLX/2/D3/CD   | 12                | 120         | 10000       | 600   | 480                    | 2700              | 82   | 5                   | 0.6 |                          |                 |     | T3 Spiral®, Carded Single Pack, 3-way                     | 155                | 1,7,8,9,10    |
|                                         |                         |      |       |                    |                   |             |             | 1600  | 1280                   |                   |      |                     |     |                          |                 |     |                                                           |                    |               |
|                                         |                         |      |       |                    |                   |             |             | 2200  | 1760                   |                   |      |                     |     |                          |                 |     |                                                           |                    |               |
|                                         | 42                      | 6.4  | 80891 | FLE42HLX/2/XL      | 10                | 120         | 12000       | 2700  | 2160                   | 2700              | 82   | 5                   | 0.6 | 170                      |                 |     | T4 Spiral®, Boxed                                         | 153                | 1,7,8,9,10    |
|                                         |                         |      | 47452 | FLE42HLX/2/XL/CD   | 12                | 120         | 12000       | 2700  | 2160                   | 2700              | 82   | 5                   | 0.6 | 170                      |                 |     | T4 Spiral®, Carded Single Pack                            | 153                | 1,7,8,9,10    |
|                                         |                         |      | 16107 | FLE42HLX/VT/827    | 10                | 120         | 10000       | 2650  | 2275                   | 2700              | 82   | 14                  | 0.6 | 170                      |                 |     | BASE DOWN OPERATION ONLY,<br>T4 Spiral®, Boxed            | 154                | 1,7,10,15     |
| <b>BIAX®</b>                            |                         |      |       |                    |                   |             |             |       |                        |                   |      |                     |     |                          |                 |     |                                                           |                    |               |
|                                         | Med                     | 12   | 4.4   | 20702              | FLE12TT3/827      | 10          | 120         | 15000 | 600                    | 480               | 2700 | 82                  | 5   | 0.6                      | 120             |     | T3 Triple Biax®, Boxed                                    | 153                | 1,7,8,9,10,12 |
|                                         |                         | 14   | 5.9   | 49884              | FLE14TBX/2/SW/CD  | 12          | 120         | 8000  | 850                    | 685               | 2700 | 82                  | 5   | 0.6                      | 120             |     | Triple Biax®, Carded Single Pack                          | 153                | 1,7,8,9,10    |
|                                         |                         | 15   | 4.9   | 12004              | FLE15TT3/827      | 10          | 120         | 15000 | 900                    | 720               | 2700 | 82                  | 5   | 0.6                      | 145             |     | T3 Triple Biax®, Boxed                                    | 153                | 1,7,8,9,10,12 |
|                                         |                         |      |       | 12005              | FLE15TT3/SW/CD    | 3           | 120         | 15000 | 900                    | 720               | 2700 | 82                  | 5   | 0.6                      | 145             |     | T3 Triple Biax®, Carded Single Pack                       | 153                | 1,7,8,9,10,12 |
|                                         |                         | 20   | 5.5   | 12008              | FLE20TT3/827      | 10          | 120         | 15000 | 1200                   | 960               | 2700 | 82                  | 5   | 0.6                      | 130             |     | T3 Triple Biax®, Boxed                                    | 153                | 1,7,8,9,10,12 |
|                                         |                         |      |       | 12009              | FLE20TT3/SW/CD    | 3           | 120         | 15000 | 1200                   | 960               | 2700 | 82                  | 5   | 0.6                      | 130             |     | T3 Triple Biax®, Carded Single Pack                       | 153                | 1,7,8,9,10,12 |
|                                         |                         | 6.9  | 49885 | FLE20TBX/2/SW/CD   | 12                | 120         | 8000        | 1200  | 965                    | 2700              | 82   | 5                   | 0.6 | 120                      |                 |     | Triple Biax®, Carded Single Pack                          | 153                | 1,7,8,9,10    |
|                                         |                         | 24   | 5.6   | 23669              | FLE24QBX/A/827    | 6           | 120         | 12000 | 1520                   | 1290              | 2700 | 82                  | -9  | 0.6                      | 170             |     | New Quad Biax® design,<br>even shorter MOL, boxed         | 153                | 1,7,8,9,10,12 |
|                                         |                         | 27   | 6.9   | 49887              | FLE27QBX/2/SW/CD  | 12          | 120         | 6000  | 1700                   | 1365              | 2700 | 82                  | 5   | 0.6                      | 130             |     | Quad Biax®, Carded Single Pack                            | 153                | 1,7,8,9,10    |
|                                         |                         | 28   | 5.9   | 40351              | FLE28QBX/LL/CD    | 3           | 120         | 12000 | 1750                   | 1485              | 2700 | 82                  | -9  | 0.6                      | 170             |     | Soft White, Quad Biax®, Carded,<br>Standard Shell Ballast | 153                | 1,7,8,9,10,12 |
|                                         |                         |      |       | 46270              | FLE28QBX/A/827    | 6           | 120         | 12000 | 1750                   | 1485              | 2700 | 82                  | -9  | 0.6                      | 170             |     | Shorter MOL                                               | 153                | 1,7,8,9,10,12 |
|                                         | 29                      | 6.3  | 41457 | FLE29QBX/DV/827    | 6                 | 120         | 10000       | 1750  | 1500                   | 2700              | 82   | -9                  | 0.6 | 170                      |                 |     | Dimming, Standard Shell Ballast                           | 156                | 1,7,8,9,12,14 |
|                                         |                         |      | 45599 | FLE29QBX/DV/827/CD | 3                 | 120         | 10000       | 1750  | 1500                   | 2700              | 82   | -9                  | 0.6 | 170                      |                 |     | Dimming, Carded, Standard Shell Ballast                   | 156                | 1,7,8,9,12,14 |
| <b>REFLECTORS</b>                       |                         |      |       |                    |                   |             |             |       |                        |                   |      |                     |     |                          |                 |     |                                                           |                    |               |
|                                         | Med                     | 11   | 4.7   | 20704              | FLE11/R20         | 10          | 120         | 10000 | 370                    | 296               | 2700 | 82                  | 5   | 0.6                      | 120             |     | Soft White, R20 Glass Reflector                           | 157                | 1,8,9,10,12   |
|                                         |                         |      | 80892 | FLE11/2/R20XL      | 10                | 120         | 10000       | 400   | 320                    | 2700              | 82   | 5                   | 0.6 | 120                      |                 |     | Soft White, R20 Glass Reflector, Boxed                    | 157                | 1,8,9,10,12   |
|                                         |                         |      | 47477 | FLE11/2/R20XL/CD   | 12                | 120         | 10000       | 400   | 320                    | 2700              | 82   | 5                   | 0.6 | 120                      |                 |     | Soft White, R20 Glass Reflector,<br>Carded Single Pack    | 157                | 1,8,9,10,12   |
|                                         | 15                      | 5.5  | 49917 | FLE15/A2/R30       | 6                 | 120         | 10000       | 550   | 445                    | 2700              | 82   | -22                 | 0.6 | 170                      |                 |     | Soft White, R30 Glass Reflector                           | 157                | 1,8,9,10,12   |
|                                         |                         | 5.4  | 20708 | FLE15/2/R30/SWCD   | 3                 | 120         | 8000        | 720   | 580                    | 2700              | 82   | 5                   | 0.6 | 120                      |                 |     | Soft White, R30 Glass Reflector,<br>Carded Single Pack    | 158                | 1,8,9,10,12   |
|                                         |                         | 5.5  | 80893 | FLE15/2/R30XL      | 10                | 120         | 10000       | 750   | 600                    | 2700              | 82   | 5                   | 0.6 | 120                      |                 |     | Soft White, R30 Glass Reflector, Boxed                    | 157                | 1,8,9,10,12   |
|                                         |                         |      | 47478 | FLE15/2/R30XL/CD   | 12                | 120         | 10000       | 750   | 600                    | 2700              | 82   | 5                   | 0.6 | 120                      |                 |     | Soft White, R30 Glass Reflector,<br>Carded Single Pack    | 157                | 1,8,9,10,12   |
|                                         |                         | 5.6  | 21709 | FLE15/2/DV/R30     | 6                 | 120         | 6000        | 720   | 580                    | 2700              | 82   | 5                   | 0.6 | 110                      |                 |     | Dimming, Soft White, R30 Glass Reflector, Boxed           | 165                | 1,8,9,12,14   |

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All footnote references found at the end of this section. Reduced Wattage High Color Rendering TLCP Compliant Plug-Ins EOL Protection Plug-Ins Energy Star Screw-Ins



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|                                                                                    |         |       | Nominal<br>Length Order |                            |     | Case  | Rated         | Lumens          | Color       | Min. Start | Power         |        |                                                                                     |                                                                                     |                                                                   | Warning   |             |
|------------------------------------------------------------------------------------|---------|-------|-------------------------|----------------------------|-----|-------|---------------|-----------------|-------------|------------|---------------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------|-------------|
| Base                                                                               | Watts   | in.   | Code                    | Description                | Qty | Volt  | Life<br>Hours | Initial<br>Mean | Temp.<br>K. | CRI        | Temp.<br>(°F) | Factor | THD                                                                                 | Additional Information                                                              |                                                                   | Notices   | Footnotes   |
| SELF-BALLASTED LAMPS (CONTINUED)                                                   |         |       |                         |                            |     |       |               |                 |             |            |               |        |                                                                                     |                                                                                     |                                                                   |           |             |
| REFLECTORS (CONTINUED)                                                             |         |       |                         |                            |     |       |               |                 |             |            |               |        |                                                                                     |                                                                                     |                                                                   |           |             |
| Med                                                                                | 15      | 5.6   | 21710                   | FLE15/2/DV/R30/SW/CD       | 3   | 120   | 6000          | 720 580         | 2700        | 82         | 5             | 0.6    | 110                                                                                 |    | Dimming, Soft White, R30 Glass Reflector, Carded Single Pack      | 165       | 1,8,9,12,14 |
|   | Med     | 23    | 5.9                     | 15382 FLE23/A4/R40         | 6   | 120   | 10000         | 950 760         | 2700        | 82         | -13           | 0.6    | 170                                                                                 |    | Soft White, R40 Glass Reflector                                   | 157       | 1,8,9,10,12 |
|                                                                                    |         | 26    | 6.5                     | 21738 FLE26/2/R40/SW/CD    | 3   | 120   | 6000          | 1300 1040       | 2700        | 82         | 5             | 0.6    | 120                                                                                 |    | Soft White, R40 Glass Reflector, Carded Single Pack               | 158       | 1,8,9,10,12 |
|                                                                                    |         |       |                         | 80894 FLE26/2/R40XL        | 6   | 120   | 10000         | 1300 1040       | 2700        | 82         | 5             | 0.6    | 120                                                                                 |    | Soft White, R40 Glass Reflector, Boxed                            | 157       | 1,8,9,10,12 |
|                                                                                    |         |       |                         | 47479 FLE26/2/R40XL/CD     | 3   | 120   | 10000         | 1300 1040       | 2700        | 82         | 5             | 0.6    | 120                                                                                 |    | Soft White, R40 Glass Reflector, Carded Single Pack               | 157       | 1,8,9,10,12 |
|                                                                                    |         |       | 6.9                     | 21716 FLE26/2/DV/R40       | 6   | 120   | 6000          | 1300 1040       | 2700        | 82         | 5             | 0.6    | 110                                                                                 |    | Dimming, Soft White, R40 Glass Reflector, Boxed                   | 165       | 1,8,9,12,14 |
|    |         |       |                         | 21718 FLE26/2/DV/R40/SW/CD | 3   | 120   | 6000          | 1300 1040       | 2700        | 82         | 5             | 0.6    | 110                                                                                 |    | Dimming, Soft White, R40 Glass Reflector, Carded Single Pack      | 165       | 1,8,9,12,14 |
|                                                                                    |         |       | 5.5                     | 21739 FLE26/2/PAR38/SW/CD  | 3   | 120   | 6000          | 1200 970        | 2700        | 82         | 5             | 0.6    | 120                                                                                 |    | Soft White, Par 38 Glass Reflector, Carded Single Pack            |           | 1,8,9,12,16 |
|                                                                                    |         |       | 5.6                     | 80895 FLE26/2/PAR38/XL     | 6   | 120   | 10000         | 1300 1040       | 2700        | 82         | 5             | 0.6    |                                                                                     |    | Soft White, Par 38 Glass Reflector, Boxed, Wet rated              | 166       | 1,8,9,12,16 |
|                                                                                    |         |       |                         | 47483 FLE26/2/PAR38/XL     | 3   | 120   | 10000         | 1300 1040       | 2700        | 82         | 5             | 0.6    |                                                                                     |    | Soft White, Par 38 Glass Reflector, Carded Single Pack, Wet rated | 166       | 1,8,9,12,16 |
|                                                                                    | GENURA® |       |                         |                            |     |       |               |                 |             |            |               |        |                                                                                     |                                                                                     |                                                                   |           |             |
|  | Med     | 23    | 4.9                     | 25418 EL23/R25/SW          | 6   | 120   | 15000         | 1100 880        | 2700        | 82         | 32            | 0.6    | 130                                                                                 |  | Genura® Electrodeless Design, Soft White                          | 160       | 1,8,9,10    |
|                                                                                    |         |       |                         | 12273 EL23/R25/WW          | 6   | 120   | 15000         | 1100 880        | 3000        | 82         | 32            | 0.6    | 130                                                                                 |  | Genura® Electrodeless Design, RE 830 Phosphor, Warm White         | 160       | 1,8,9,10    |
| DECORATIVE SHAPES                                                                  |         |       |                         |                            |     |       |               |                 |             |            |               |        |                                                                                     |                                                                                     |                                                                   |           |             |
| Cand                                                                               | 5       | 4.8   | 16098                   | FLE5/2/CAC/827             | 10  | 120   | 6000          | 200 160         | 2700        | 82         | 5             | 0.6    | 145                                                                                 |  | Candle Shape, Candelabra Base, Boxed                              | 157       | 1,8,10,12   |
| Med                                                                                | 5       | 4.8   | 16099                   | FLE5/2/CAM/827             | 10  | 120   | 6000          | 200 160         | 2700        | 82         | 5             | 0.6    | 145                                                                                 |  | Candle Shape, Medium Base, Boxed                                  | 157       | 1,8,10,12   |
| Cand                                                                               | 7       | 5.2   | 16103                   | FLE7/2/CAC/827             | 10  | 120   | 6000          | 370 296         | 2700        | 82         | 5             | 0.6    | 130                                                                                 |  | Candle Shape, Candelabra Base, Boxed                              | 157       | 1,8,10,12   |
| Med                                                                                | 7       | 5.2   | 16104                   | FLE7/2/CAM/827             | 10  | 120   | 6000          | 370 296         | 2700        | 82         | 5             | 0.6    | 130                                                                                 |  | Candle Shape, Medium Base, Boxed                                  | 157       | 1,8,10,12   |
| Cand                                                                               | 9       | 5.4   | 85388                   | FLE9/2/CAC/SW/CD           | 12  | 120   | 6000          | 430 344         | 2700        | 82         | 5             | 0.6    | 125                                                                                 |  | Candle Shape, Candelabra Base, Carded Single Pack                 | 157       | 1,8,10,12   |
|                                                                                    |         |       |                         | 16105 FLE9/2/CAC/827       | 10  | 120   | 6000          | 430 344         | 2700        | 82         | 5             | 0.6    | 125                                                                                 |  | Candle Shape, Candelabra Base, Boxed                              | 157       | 1,8,10,12   |
| Med                                                                                | 9       | 5.4   | 47488                   | FLE9/2/CAM/XL/CD           | 12  | 120   | 10000         | 430 344         | 2700        | 82         | 5             | 0.6    | 125                                                                                 |  | Candle Shape, Medium Base, Carded Single Pack                     | 157       | 1,8,10,12   |
|  |         |       |                         | 16106 FLE9/2/CAM/827       | 10  | 120   | 6000          | 430 344         | 2700        | 82         | 5             | 0.6    | 125                                                                                 |  | Candle Shape, Medium Base, Boxed                                  | 157       | 1,8,10,12   |
|                                                                                    | 11      | 4.4   | 47486                   | FLE11/2/A17XL/CD           | 12  | 120   | 10000         | 550 440         | 2700        | 82         | 5             | 0.6    |                                                                                     |  | A-Line Shape, Carded Single Pack                                  | 157       | 1,8,10,12   |
|                                                                                    | 11      | 4.8   | 47484                   | FLE11/2/G25XL/CD           | 12  | 120   | 10000         | 550 440         | 2700        | 82         | 5             | 0.6    |                                                                                     |  | Globe Shape, Carded Single Pack                                   | 157       | 1,8,10,12   |
|                                                                                    |         |       | 5.2                     | 49894 FLE11/2/TC14/SW/CD   | 12  | 120   | 6000          | 520 420         | 2700        | 82         | 5             | 0.6    | 120                                                                                 |  | Post Light, Carded Single Pack                                    | 157       | 1,8,10,12   |
|                                                                                    |         |       | 5.2                     | 49895 FLE11/2/TC14/BUG/CD  | 12  | 120   | 6000          | 520 420         | 2700        | 82         | 5             | 0.6    | 120                                                                                 |  | Bug Yellow Post Light, Carded Single Pack                         | 157       | 1,8,10,12   |
|                                                                                    | 12      | 4.8   | 20703                   | FLE12/A19/827              | 10  | 120   | 10000         | 550 440         | 2700        | 82         | 5             | 0.6    | 120                                                                                 |  | A-Line Shape, Reduced Size, Boxed                                 | 157       | 1,8,10,12   |
|                                                                                    | 14      | 5     | 47464                   | FLE14/2/TC16/BUG           | 12  | 120   | 10000         | 750 600         | 2700        | 82         | 5             | 0.6    |                                                                                     |  | Bug Yellow Post Light, Carded Single Pack                         | 157       | 1,8,10,12   |
|                                                                                    | 15      | 4.8   | 47487                   | FLE15/2/A21XL/CD           | 12  | 120   | 10000         | 825 660         | 2700        | 82         | 5             | 0.6    |                                                                                     |  | A-Line Shape, Carded Single Pack                                  | 157       | 1,8,10,12   |
|                                                                                    |         |       |                         | 47485 FLE15/2/G25XL/CD     | 12  | 120   | 10000         | 800 640         | 2700        | 82         | 5             | 0.6    |                                                                                     |  | Globe Shape, Carded Single Pack                                   | 157       | 1,8,10,12   |
|                                                                                    |         | 4.7   | 21733                   | FLE15/2/A21/SW/CD          | 12  | 120   | 8000          | 850 689         | 2700        | 82         | 5             | 0.6    | 120                                                                                 |  | A-Line Shape, Carded Single Pack                                  | 158       | 1,8,10,12   |
|                                                                                    |         | 5.4   | 12010                   | FLE15/A19/827              | 6   | 120   | 10000         | 825 660         | 2700        | 82         | 5             | 0.6    | 145                                                                                 |  | A-Line Shape, Reduced Size, Boxed                                 | 157       | 1,8,10,12   |
|                                                                                    |         |       |                         | 12011 FLE15/A19/SW/CD      | 3   | 120   | 10000         | 825 660         | 2700        | 82         | 5             | 0.6    | 145                                                                                 |  | A-Line Shape, Reduced Size, Carded Single Pack                    | 157       | 1,8,10,12   |
|                                                                                    | 15      | 5.3   | 41325                   | FLE15/6/T19/827            | 10  | 120   | 6000          | 800 640         | 2700        | 84         | 32            | 0.6    | 170                                                                                 |  | Bullet                                                            | 158       | 1,8,10,12   |
|                                                                                    |         | 5.8   | 12501                   | FLE15TBX/L/G29             | 6   | 120   | 12000         | 750 600         | 2700        | 82         | -9            | 0.6    | 170                                                                                 |  | Soft White, G30 Globe Slimshell Ballast                           | 157       | 1,8,10,12   |
|                                                                                    |         | 5.4   | 41546                   | FLE15/A3/G30               | 6   | 120   | 10000         | 730 590         | 2700        | 82         | -9            | 0.6    | 170                                                                                 |  | Soft White, G30 Globe, Reduced Overall Length                     | 157       | 1,8,10,12   |
|                                                                                    | 6       | 41464 | FLE15/L/TC16/827        | 6                          | 120 | 12000 | 850 680       | 2700            | 82          | -9         | 0.6           | 170    |  | Post Light, Slimshell Ballast                                                       | 157                                                               | 1,8,10,12 |             |

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## Compact Fluorescent Lamps

| Nominal<br>Length Order | Base | Watts | in. | Code | Description | Case<br>Qty | Volt | Rated<br>Life<br>Hours | Lumens<br>Initial | Mean | Color<br>Temp.<br>K | CRI | Min. Start<br>Temp. Power<br>(°F) Factor THD | Additional Information | Warning<br>Notices | Footnotes |
|-------------------------|------|-------|-----|------|-------------|-------------|------|------------------------|-------------------|------|---------------------|-----|----------------------------------------------|------------------------|--------------------|-----------|
|-------------------------|------|-------|-----|------|-------------|-------------|------|------------------------|-------------------|------|---------------------|-----|----------------------------------------------|------------------------|--------------------|-----------|

### SELF-BALLASTED LAMPS (CONTINUED)

#### DECORATIVE SHAPES (CONTINUED)

|     |    |     |       |                      |     |      |      |      |      |      |    |     |     |                                                                                     |                                                                                     |                                 |           |           |
|-----|----|-----|-------|----------------------|-----|------|------|------|------|------|----|-----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|-----------|-----------|
| Med | 20 | 6.1 | 41456 | FLE20/A2/A24/827     | 6   | 120  | 6000 | 1125 | 950  | 2700 | 82 | 0   | 0.6 | 170                                                                                 |  | A-Line Shape, Slimshell Ballast | 157       | 1,8,10,12 |
|     |    |     | 41441 | FLE20/A2/A24/SW/CD 3 | 120 | 6000 | 1125 | 950  | 2700 | 82   | 0  | 0.6 | 170 |  | A-Line Shape, Carded, Slimshell Ballast                                             | 157                             | 1,8,10,12 |           |

### LAMPS AND ADAPTERS

#### CIRCLITE®

|                                                                                  |     |    |     |                       |   |     |       |      |      |      |    |     |     |                                                                                                                                                                     |                                                                                                                                                                     |                                                     |           |
|----------------------------------------------------------------------------------|-----|----|-----|-----------------------|---|-----|-------|------|------|------|----|-----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------|
|  | Med | 21 | 3.4 | 11307 FCA21/CD        | 4 | 120 | 10000 | 1200 | 1020 | 3000 | 82 | 0.5 | 20  |   | Circlite, Carded, FC8T9/KB Replacement Lamp                                                                                                                         | 163                                                 | 1,7,10,11 |
|                                                                                  |     |    |     | 48222 FCA21/D CD TRAY | 4 | 120 | 10000 |      |      |      |    |     |     |   | Circlite, Carded Tray Pack, FC8T9/KB Replacement Lamp                                                                                                               | 163                                                 | 1,7,10,11 |
|                                                                                  |     | 30 | 3.5 | 27251 FEA30CIR/SW/CD  | 4 | 120 | 10000 | 1900 | 1520 | 2700 | 82 | 32  | 0.6 | 170                                                                                                                                                                 |   | Electronic Circlite, Carded, Replacement Lamp FC8T9 | 164       |

#### 2D®-ELECTRONIC

|     |    |     |       |                  |   |     |       |      |      |      |    |    |     |   |                                               |     |                |
|-----|----|-----|-------|------------------|---|-----|-------|------|------|------|----|----|-----|---|-----------------------------------------------|-----|----------------|
| Med | 39 | 4.3 | 27253 | FEA38/2D/3WAY/CD | 4 | 120 | 10000 | 2780 | 2365 | 2700 | 82 | 32 | 0.5 | 2 | 3-Way, Carded Uses F382D/827 Replacement Lamp | 164 | 1,3,7,10,11,12 |
|-----|----|-----|-------|------------------|---|-----|-------|------|------|------|----|----|-----|---|-----------------------------------------------|-----|----------------|

### BRIGHT STICK® LIGHTING UNITS

|  |    |    |       |              |   |  |      |     |  |      |    |  |  |  |                                                                                                 |  |      |
|--|----|----|-------|--------------|---|--|------|-----|--|------|----|--|--|--|-------------------------------------------------------------------------------------------------|--|------|
|  | 33 | 25 | 12257 | FBS25/WX/PP  | 6 |  | 7500 | 725 |  | 3450 | 59 |  |  |  | Bright Stik, White Lamp-In-Holder Unit with Standard 2-Prong Plug, Integral Lamp(1)*            |  | 1,10 |
|  |    |    | 12263 | FBS25/GS/PP  | 6 |  | 7500 | 470 |  | 3050 | 90 |  |  |  | Bright Stik, Gro & Sho, Lamp-In-Holder Unit with Standard 2-Prong Plug, Integral Lamp (1)*      |  | 1,10 |
|  |    |    | 47912 | FBS25/BLB/PP | 6 |  | 7500 |     |  |      |    |  |  |  | Bright Stik, Blacklight Blue Lamp-In-Holder Unit with Standard 2-Prong Plug, Integral Lamp (1)* |  | 1,10 |

| Bulb | Base | Nominal<br>Length<br>Watts in. | Order<br>Code | Description | Case<br>Qty | Rated<br>Life<br>Hours | Additional Information | Warning<br>Notices | Footnotes |
|------|------|--------------------------------|---------------|-------------|-------------|------------------------|------------------------|--------------------|-----------|
|------|------|--------------------------------|---------------|-------------|-------------|------------------------|------------------------|--------------------|-----------|

### GERMICIDAL

|    |      |    |       |       |                |     |      |                                                    |     |       |
|----|------|----|-------|-------|----------------|-----|------|----------------------------------------------------|-----|-------|
| T4 | G23  | 5  | 3.35  | 16479 | GBX5/UVC       | 100 | 8000 | Clear, Preheat, 2 Pin Internal Starter, UVC Source | 106 | 9, 16 |
|    |      | 9  | 5.71  | 15877 | GBX9/UVC       | 100 | 8000 | Clear, Preheat, 2 Pin Internal Starter, UVC Source | 106 | 9, 16 |
|    |      | 11 | 8.46  | 15879 | GBX11/UVC      | 100 | 8000 | Clear, Preheat, 2 Pin Internal Starter, UVC Source | 106 | 9, 16 |
|    | GH23 | 13 | 6.69  | 15881 | GBX13/UVC      | 100 | 8000 | Clear, Preheat, 2 Pin Internal Starter, UVC Source | 106 | 9, 16 |
| T6 | 2G11 | 18 | 8.8   | 15882 | GBX18/UVC/2G11 | 40  | 8000 | Clear, UVC Source                                  | 106 | 9, 16 |
|    |      | 36 | 16.33 | 15883 | GBX36/UVC/2G11 | 40  | 8000 | Clear, UVC Source                                  | 106 | 9, 16 |
|    |      | 55 | 21.1  | 15885 | GBX55/UVC/2G11 | 25  | 8000 | Clear, UVC Source                                  | 106 | 9, 16 |

### BLACKLIGHT

|    |        |    |       |       |                  |    |       |                                              |     |   |
|----|--------|----|-------|-------|------------------|----|-------|----------------------------------------------|-----|---|
| T4 | G23    | 5  | 3.35  | 42935 | F9BX BL G23      | 10 | 10000 | Blacklight UVA Source 2 pin Internal Starter | 104 | 8 |
|    |        | 11 | 5.71  | 42936 | F11BX BL G23     | 10 | 10000 | Blacklight UVA Source 2 pin Internal Starter | 104 | 8 |
|    | GX23   | 13 | 8.46  | 42937 | F13BX BL GX23    | 10 | 10000 | Blacklight UVA Source 2 pin Internal Starter | 104 | 8 |
| T4 | G24d-3 | 26 | 6.7   | 42938 | F26DBX BL G24d-3 | 10 | 10000 | Blacklight UVA Source 4 Pin Electronic       | 104 | 8 |
| T6 | 2G11   | 24 | 12.8  | 42939 | F24BX BL 2G11    | 10 | 10000 | Blacklight UVA                               | 104 | 8 |
|    |        | 36 | 16.33 | 42940 | F36BX BL 2G11    | 10 | 10000 | Blacklight UVA                               | 104 | 8 |
|    |        | 55 | 21.1  | 42941 | F55BX BL 2G11    | 10 | 10000 | Blacklight UVA                               | 104 | 8 |



# Compact Fluorescent Lamps

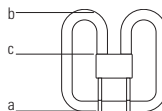
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## FOOTNOTES

### # Footnote

- 1 Fluorescent lamp lumens decline during life.
- 2 Based on 60Hz reference circuit.
- 3 10-watt, 16-watt and 28-watt 2D® lamps may be operated in any position. 21-watt, 38-watt, 39-watt and 55-watt 2D® lamps must be used with the leg marked (a) in the diagram below the bend (b), in order to avoid overheating the end of the cap marked (c).
- 4 Life ratings for the F18BX preheat lamps are based on operating the lamp at 3hrs. per start on a preheat type circuit. Operation on rapid start and instant start ballasts is not recommended.
- 5 Cold cathode resistance is approximately 6.0 Ohms.
- 6 4-Pin lamp minimum starting temperature is a function of the ballast. Most ballasts are rated with a minimum starting temperature of 50°F (10°C). Ballasts are also available that provide reliable starting to 0°F (-18°C) and -20°F (-29°C).
- 7 Most one piece self ballasted lamps for incandescent sockets and plug-in lamps with screw-in adapters do not work with clip-on shades.
- 8 Lumens on one piece self ballasted lamp systems are measured base up.
- 9 Best performance if operated base up and at 77°F (25°C) ambient temperature.
- 10 Use only on 120V, 60Hz circuits. Do not use on dimming circuits, photocells or timers. Do not use in wet locations.
- 11 Adapters rated at 40,000 hours life.
- 12 Amalgam products experience stable brightness over a wider temperature range and in various operating positions.
- 13 Life ratings are based on operating the lamp at 3hrs. per start on a rapid start type ballast. Life rating on a preheat or instant start ballast is 25% lower.
- 14 Use only on 120V, 60Hz circuits. Do not use on with photocells or timers. Do not use in wet locations.
- 15 These lamps are only recommended for use with single lamp ballasts or parallel wired 2-lamp ballasts.
- 16 UL Listed for wet locations. Use only on 120V, 60Hz circuits. Do not use on dimming circuits, photocells or timers.
- 17 Max. bulb wall temperature not to exceed 180°C. Consult GE sales representative for further information.



## WARNING AND CAUTION NOTICES

**151**

### ⚠ CAUTION

#### Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

**152**

### ⚠ CAUTION

#### Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

#### Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, dimmers, or in totally enclosed recessed fixtures.

**153**

### ⚠ CAUTION

#### Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

#### Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixture or lights, electronic timers, photocells, or with dimmers

**154**

### ⚠ CAUTION

#### Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

#### Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime

safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, in totally enclosed recessed fixtures, or with dimmers

**155**

### ⚠ CAUTION

#### Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

#### Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, in totally enclosed recessed fixtures, or with dimmers

**156**

### ⚠ CAUTION

#### Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

#### Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or in totally enclosed recessed fixtures.

**157**

### ⚠ CAUTION

#### Risk of electric shock

- Do not open - no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or with dimmers.



## WARNING AND CAUTION NOTICES (CONTINUED)

**158**

### ▲ CAUTION

#### Risk of electric shock

- Do not open - no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, dimmers, or in totally enclosed recessed fixtures.

**159**

### ▲ CAUTION

#### Risk of electric shock

- Do not open - no user serviceable parts inside
- Do not use in wet locations
- Use indoors only

#### Risk of fire

- Do not use this adapter on dimmers, electronic timers, or photocells

Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width and which are provided with lamp shades. Not intended for use with emergency exit fixtures or lights.

**160**

### ▲ CAUTION

#### Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

#### Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product may cause interference to radio equipment operating in the frequency range of 2.2 - 2.8 MHz. Avoid placing this product near these devices. To reduce the possibility of radio interference to maritime safety communications, this device should not be installed:

- 1) On board cargo vessels of more than 300 tons
- 2) On board cargo vessels carrying more than 12 passengers for hire
- 3) At any medium frequency public coast station

Further, installation is not recommended on board vessels equipped with medium frequency, single sideband marine radios. If interference occurs, move this product away from the device or plug either into a different outlet. Such interference complaints should be reported to: Application Solutions at General Electric Company, 1975 Noble Road, Cleveland, Ohio 44112, or call toll free (800) 435-4448 from 8:00 am to 6:00 pm EST.

Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, dimmers, or in totally enclosed recessed fixtures.

**161**

### ▲ CAUTION

#### Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside
- Use indoors only

#### Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, in totally enclosed recessed fixtures, or with dimmers. Use only with portable lamps which are provided with lamp shades.

**162**

### ▲ CAUTION

#### Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside
- Use indoors only

#### Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, in totally enclosed recessed fixtures, or with dimmers. Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width. Use only with portable lamps which are provided with lamp shades.

**163**

### ▲ CAUTION

#### Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside
- Use indoors only

#### Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width or with portable lamps which are provided with lamp shades. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, in totally enclosed recessed fixtures, or with dimmers.

**164**

### ▲ CAUTION

#### Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside
- Use indoors only

#### Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, in totally enclosed recessed fixtures, or with dimmers. Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width. Use only with portable lamps which are provided with lamp shades.

**165**

### ▲ CAUTION

#### Risk of electric shock

- Do not open - no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells or in totally enclosed recessed fixtures.

**166**

### ▲ CAUTION

#### Risk of electric shock

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or with dimmers.



## Compact Fluorescent Lamps

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### CFL CROSS REFERENCE

| GE<br>Description       | Generic<br>Description              | Osram/Sylvania<br>Description | Philips<br>Description |
|-------------------------|-------------------------------------|-------------------------------|------------------------|
| ORDER THIS<br>GE LAMP   | IF YOU CURRENTLY USE<br>THESE LAMPS |                               |                        |
| LOW WATTAGE BIAx® 2-PIN |                                     |                               |                        |
| F5BX/SPX27              | CFT5W/G23/827                       | CF5DS/827                     | PL-S 5W/827            |
| F5BX/SPX41              | CFT5W/G23/841                       | CFDS/841                      | —                      |
| F7BX/SPX27              | CFT7W/G23/827                       | CF7DS/827                     | PL-S 7W/827            |
| F7BX/SPX35              | CFT7W/G23/835                       | CF7DS/835                     | PL-S 7W/835            |
| F7BX/SPX41              | CFT7W/G23/841                       | CF7DS/841                     | PL-S 7W/841            |
| F9BX/SPX27              | CFT9W/G23/827                       | CF9DS/827                     | PL-S 9W/827            |
| F9BX/SPX35              | CFT9W/G23/835                       | CF9DS/835                     | PL-S 9W/835            |
| F9BX/SPX41              | CFT9W/G23/841                       | CF9DS/841                     | PL-S 9W/841            |
| F13BX/SPX27             | CFT13W/G23/827                      | CF13DS/827                    | PL-S 13W/827           |
| F13BX/SPX30             | CFT13W/G23/830                      | CF13DS/830                    | PL-S 13W/830           |
| F13BX/SPX35             | CFT13W/G23/835                      | CF13DS/835                    | PL-S 13W/835           |
| F13BX/SPX41             | CFT13W/G23/841                      | CF13DS/841                    | PL-S 13W/841           |
| F13BX/SPX50             | CFT13W/G23/850                      | CF13DS/850                    | PL-S 13W/850           |
| F13BX/E/827             | CFT13W/G23/827                      | —                             | —                      |
| F13BX/E/830             | CFT13W/G23/835                      | —                             | —                      |
| F13BX/E/835             | CFT13W/G23/830                      | —                             | —                      |
| F13BX/E/841             | CFT13W/G23/841                      | —                             | —                      |
| F13BX/E/850             | CFT13W/G23/850                      | —                             | —                      |
| HIGH LUMEN BIAx®        |                                     |                               |                        |
| F18BX/SPX30             | FT18W/2G11/830                      | FT18DL/830                    | PL-L 18W/830           |
| F18BX/SPX35             | FT18W/2G11/835                      | FT18DL/835                    | PL-L 18W/835           |
| F18BX/SPX41             | FT18W/2G11/841                      | FT18DL/841                    | PL-L 18W/841           |
| F18BX/SPX30/RS          | FT18W/2G11/RS/830                   | FT18DL/830/RS                 | PL-L 18W/830           |
| F18BX/SPX35/RS          | FT18W/2G11/RS/835                   | FT18DL/835/RS                 | PL-L 18W/835           |
| F18BX/SPX41/RS          | FT18W/2G11/RS/841                   | FT18DL/841/RS                 | PL-L 18W/841           |
| F18BX/SPX65/RS          | FT18W/2G11/RS/865                   | —                             | —                      |
| F27BX/SPX3/RS           | FT24W/2G11/830                      | FT24DL/830                    | PL-L 24W/830           |
| F27BX/SPX35/RS          | FT24W/2G11/835                      | FT24DL/835                    | PL-L 24W/835           |
| F27BX/SPX41/RS          | FT24W/2G11/841                      | FT24DL/841                    | PL-L 24W/841           |
| F39BX/SPX3/RS           | FT36W/2G11/830                      | FT36DL/830                    | PL-L 36W/830           |
| F39BX/SPX3/RS           | FT36W/2G11/835                      | FT36DL/835                    | PL-L 36W/835           |
| F39BX/SPX3/RS           | FT36W/2G11/841                      | FT36DL/841                    | PL-L 36W/841           |
| F40/30BX/SPX30          | FT40W/2G11/RS/830                   | FT40DL/830/RS                 | PL-L 40W/830/RS/IS     |
| F40/30BX/SPX35          | FT40W/2G11/RS/835                   | FT40DL/835/RS                 | PL-L 40W/835/RS/IS     |
| F40/30BX/SPX41          | FT40W/2G11/RS/841                   | FT40DL/841/RS                 | PL-L 40W/841/RS/IS     |
| F40/30BX/SPX50/RS       | FT40W/2G11/RS/850                   | —                             | —                      |
| F50/30BX/SPX30/RS       | FT50W/2G11/RS/830                   | —                             | PL-L 50W/830/RS        |
| F50/30BX/SPX35/RS       | FT50W/2G11/RS/835                   | —                             | PL-L 50W/835/RS        |
| F50/30BX/SPX41/RS       | FT50W/2G11/RS/841                   | —                             | PL-L 50W/841/RS        |
| F55BX/830               | FT55W/2G11/RS/830                   | FT55DL/830                    | —                      |
| F55BX/835               | FT55W/2G11/RS/835                   | FT55DL/835                    | —                      |
| F55BX/841               | FT55W/2G11/RS/841                   | FT55DL/841                    | —                      |

| GE<br>Description     | Generic<br>Description              | Osram/Sylvania<br>Description | Philips<br>Description |
|-----------------------|-------------------------------------|-------------------------------|------------------------|
| ORDER THIS<br>GE LAMP | IF YOU CURRENTLY USE<br>THESE LAMPS |                               |                        |
| DOUBLE BIAx® 2-PIN    |                                     |                               |                        |
| F9DBX23T4/SPX27       | CFQ9W/G23/827                       | CF9DD/827                     | —                      |
| F9DBX23T4/841         | CFQ9W/G23/841                       | —                             | —                      |
| F13DBX23T4/SPX27      | CFQ13W/GX23/827                     | CF13DD/827                    | PL-C 13W/827/USA       |
| F13DBX23T4/SPX30      | CFQ13W/GX23/830                     | CF13DD/830                    | PL-C 13W/830/USA       |
| F13DBX23T4/SPX35      | CFQ13W/GX23/835                     | CF13DD/835                    | PL-C 13W/835/USA       |
| F13DBX23T4/SPX41      | CFQ13W/GX23/841                     | CF13DD/841                    | PL-C 13W/841/USA       |
| F13DBXT4/SPX27        | CFQ13W/G24d/827                     | —                             | PL-C 13W/827           |
| F13DBXT4/SPX30        | CFQ13W/G24d/830                     | —                             | PL-C 13W/830           |
| F13DBXT4/SPX35        | CFQ13W/G24d/835                     | —                             | —                      |
| F13DBXT4/SPX41        | CFQ13W/G24d/841                     | —                             | —                      |
| F18DBXT4/SPX27        | CFQ18W/G24d/827                     | CF18DD/827                    | PL-C 18W/827           |
| F18DBXT4/SPX30        | CFQ18W/G24d/830                     | CF18DD/830                    | PL-C 18W/830           |
| F18DBXT4/SPX35        | CFQ18W/G24d/835                     | CF18DD/835                    | PL-C 18W/835           |
| F18DBXT4/SPX41        | CFQ18W/G24d/841                     | CF18DD/841                    | PL-C 18W/841           |
| F26DBXT4/SPX27        | CFQ26W/G24d/827                     | CF26DD/827                    | PL-C 26W/827           |
| F26DBXT4/SPX30        | CFQ26W/G24d/830                     | CF26DD/830                    | PL-C 26W/830           |
| F26DBXT4/SPX35        | CFQ26W/G24d/835                     | CF26DD/835                    | PL-C 26W/835           |
| F26DBXT4/SPX41        | CFQ26W/G24d/841                     | CF26DD/841                    | PL-C 26W/841           |
| F26DBX/E/827          | CFQ26W/G24d/827                     | —                             | —                      |
| F26DBX/E/830          | CFQ26W/G24d/830                     | —                             | —                      |
| F26DBX/E/835          | CFQ26W/G24d/835                     | —                             | —                      |
| F26DBX/E/841          | CFQ26W/G24d/841                     | —                             | —                      |
| DOUBLE BIAx® 4-PIN    |                                     |                               |                        |
| F13DBX/SPX27/4P       | CFQ13W/G24q/827                     | CF13DD/E/827                  | PL-C 13W/827/4P        |
| F13DBX/SPX30/4P       | CFQ13W/G24q/830                     | CF13DD/E/830                  | PL-C 13W/830/4P        |
| F13DBX/SPX35/4P       | CFQ13W/G24q/835                     | CF13DD/E/835                  | PL-C 13W/835/4P        |
| F13DBX/SPX41/4P       | CFQ13W/G24q/841                     | CF13DD/E/841                  | PL-C 13W/841/4P        |
| F18DBX/SPX27/4P       | CFQ18W/G24q/827                     | CF18DD/E/827                  | PL-C 18W/827/4P        |
| F18DBX/SPX30/4P       | CFQ18W/G24q/830                     | CF18DD/E/830                  | PL-C 18W/830/4P        |
| F18DBX/SPX35/4P       | CFQ18W/G24q/835                     | CF18DD/E/835                  | PL-C 18W/835/4P        |
| F18DBX/SPX41/4P       | CFQ18W/G24q/841                     | CF18DD/E/841                  | PL-C 18W/841/4P        |
| F26DBX/SPX27/4P       | CFQ26W/G24q/827                     | CF26DD/E/827                  | PL-C 26W/827/4P        |
| F26DBX/SPX30/4P       | CFQ26W/G24q/830                     | CF26DD/E/830                  | PL-C 26W/830/4P        |
| F26DBX/SPX35/4P       | CFQ26W/G24q/835                     | CF26DD/E/835                  | PL-C 26W/835/4P        |
| F26DBX/SPX41/4P       | CFQ26W/G24q/841                     | CF26DD/E/841                  | PL-C 26W/841/4P        |



## CFL CROSS REFERENCE

| GE<br>Description                  | Generic<br>Description              | Osram/Sylvania<br>Description | Philips<br>Description |
|------------------------------------|-------------------------------------|-------------------------------|------------------------|
| ORDER THIS<br>GE LAMP              | IF YOU CURRENTLY USE<br>THESE LAMPS |                               |                        |
| TRIPLE BIA <sup>®</sup> 4-PIN      |                                     |                               |                        |
| F13TBX/SPX27/A/4P                  | CFTR13W/GX24q/827                   | CF13DT/E/827                  | —                      |
| F13TBX/SPX27/A/4P                  | CFTR13W/GX24q/830                   | CF13DT/E/830                  | —                      |
| F13TBX/SPX27/A/4P                  | CFTR13W/GX24q/835                   | CF13DT/E/835                  | —                      |
| F13TBX/SPX27/A/4P                  | CFTR13W/GX24q/841                   | CF13DT/E/841                  | —                      |
| F18TBX/SPX27/A/4P                  | CFTR18W/GX24q/827                   | CF18DT/E/IN/827               | PL-T 18W/827/4P        |
| F18TBX/SPX30/A/4P                  | CFTR18W/GX24q/830                   | CF18DT/E/IN/830               | PL-T 18W/830/4P        |
| F18TBX/SPX35/A/4P                  | CFTR18W/GX24q/835                   | CF18DT/E/IN/835               | PL-T 18W/835/4P        |
| F18TBX/SPX41/A/4P                  | CFTR18W/GX24q/841                   | CF18DT/E/IN/841               | PL-T 18W/841/4P        |
| F26TBX/SPX27/A/4P                  | CFTR26W/GX24q/827                   | CF26DT/E/IN/827               | PL-T 26W/827/4P        |
| F26TBX/SPX30/A/4P                  | CFTR26W/GX24q/830                   | CF26DT/E/IN/830               | PL-T 26W/830/4P        |
| F26TBX/SPX35/A/4P                  | CFTR26W/GX24q/835                   | CF26DT/E/IN/835               | PL-T 26W/835/4P        |
| F26TBX/SPX41/A/4P                  | CFTR26W/GX24q/841                   | CF26DT/E/IN/841               | PL-T 26W/841/4P        |
| F32TBX/SPX27/A/4P                  | CFTR32W/GX24q/827                   | CF32DT/E/IN/827               | PL-T 32W/827/4P        |
| F32TBX/SPX30/A/4P                  | CFTR32W/GX24q/830                   | CF32DT/E/IN/830               | PL-T 32W/830/4P        |
| F32TBX/SPX35/A/4P                  | CFTR32W/GX24q/835                   | CF32DT/E/IN/835               | PL-T 32W/835/4P        |
| F32TBX/SPX41/A/4P                  | CFTR32W/GX24q/841                   | CF32DT/E/IN/841               | PL-T 32W/841/4P        |
| F42TBX/827/A/4P/EOL                | CFTR42W/GX24q/827                   | CF42DT/E/IN/827               | PL-T 42W/827/4P        |
| F42TBX/830/A/4P/EOL                | CFTR42W/GX24q/830                   | CF42DT/E/IN/830               | PL-T 42W/830/4P        |
| F42TBX/835/A/4P/EOL                | CFTR42W/GX24q/835                   | CF42DT/E/IN/835               | PL-T 42W/835/4P        |
| F42TBX/841/A/4P/EOL                | CFTR42W/GX24q/841                   | CF42DT/E/IN/841               | PL-T 42W/841/4P        |
| HIGH OUTPUT BIA <sup>®</sup> 4-PIN |                                     |                               |                        |
| F57QBX/827/A/4P/EOL                | CFM57W/GX24q/827                    | CF57DT/E/IN/827               | —                      |
| F57QBX/830/A/4P/EOL                | CFM57W/GX24q/830                    | CF57DT/E/IN/830               | —                      |
| F57QBX/835/A/4P/EOL                | CFM57W/GX24q/835                    | CF57DT/E/IN/835               | —                      |
| F57QBX/841/A/4P/EOL                | CFM57W/GX24q/841                    | CF57DT/E/IN/841               | —                      |
| F57QBX/850/A/4P/EOL                | CFM57W/GX24q/850                    | CF57DT/E/IN/850               | —                      |
| F70QBX/827/A/4P/EOL                | CFM70W/GX24q/827                    | —                             | —                      |
| F70QBX/830/A/4P/EOL                | CFM70W/GX24q/830                    | —                             | —                      |
| F70QBX/835/A/4P/EOL                | CFM70W/GX24q/835                    | —                             | —                      |
| F70QBX/841/A/4P/EOL                | CFM70W/GX24q/841                    | —                             | —                      |
| F70QBX/850/A/4P/EOL                | CFM70W/GX24q/850                    | —                             | —                      |

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### GE ENHANCED PLUG-IN PRODUCT CONVERSION

| IF YOU USED TO ORDER GE PRODUCT: |                  | NOW ORDER GE PRODUCT: |                  | IF YOU USED TO ORDER GE PRODUCT: |                     | NOW ORDER GE PRODUCT: |                  |
|----------------------------------|------------------|-----------------------|------------------|----------------------------------|---------------------|-----------------------|------------------|
| PC                               | PC Description   | New PC                | New Description  | PC                               | PC Description      | New PC                | New Description  |
| 37654                            | F5BX/SPX27/827   | 97551                 | F5BX/827/ECO     | 12870                            | F18DBX/SPX41/4P     | 97601                 | F18DBX/841/ECO4P |
| 13575                            | F5BX/SPX27/CD    | 97552                 | F5BX/827/CDECO   | 46290                            | F26DBX/E/827        | 97602                 | F26DBX/E/827/ECO |
| 37661                            | F5BX/SPX41/840   | 97553                 | F5BX/841/ECO     | 46291                            | F26DBX/E/830        | 97603                 | F26DBX/E/830/ECO |
| 37846                            | F7BX/SPX27/827   | 97554                 | F7BX/827/ECO     | 46292                            | F26DBX/E/835        | 97604                 | F26DBX/E/835/ECO |
| 13576                            | F7BX/SPX27/CD    | 97555                 | F7BX/827/CDECO   | 46294                            | F26DBX/E/841        | 97605                 | F26DBX/E/841/ECO |
| 37659                            | F7BX/SPX35/835   | 97556                 | F7BX/835/ECO     | 35250                            | F26DBXT4/SPX27      | 97606                 | F26DBX/827/ECO   |
| 37660                            | F7BX/SPX41/840   | 97557                 | F7BX/841/ECO     | 35237                            | F26DBXT4/SPX30      | 97607                 | F26DBX/830/ECO   |
| 37651                            | F9BX/SPX27/827   | 97558                 | F9BX/827/ECO     | 35251                            | F26DBXT4/SPX35      | 97608                 | F26DBX/835/ECO   |
| 13577                            | F9BX/SPX27/CD    | 97559                 | F9BX/827/CDECO   | 35252                            | F26DBXT4/SPX41      | 97609                 | F26DBX/841/ECO   |
| 37652                            | F9BX/SPX35/835   | 97560                 | F9BX/835/ECO     | 35247                            | F26DBXT4SPX27/4P    | 97610                 | F26DBX/827/ECO4P |
| 37653                            | F9BX/SPX41/840   | 97561                 | F9BX/841/ECO     | 35235                            | F26DBXT4SPX30/4P    | 97611                 | F26DBX/830/ECO4P |
| 41645                            | F13BX/E/827      | 97562                 | F13BX/E/827/ECO  | 35248                            | F26DBXT4SPX35/4P    | 97612                 | F26DBX/835/ECO4P |
| 41646                            | F13BX/E/830      | 97563                 | F13BX/E/830/ECO  | 35236                            | F26DBXT4SPX41/4P    | 97613                 | F26DBX/841/ECO4P |
| 41649                            | F13BX/E/835      | 97564                 | F13BX/E/835/ECO  | 34391                            | F13TBX/SPX27/A/4    | 97619                 | F13TBX/827/A/ECO |
| 41651                            | F13BX/E/841      | 97565                 | F13BX/E/841/ECO  | 34395                            | F13TBX/SPX30/A/4    | 97620                 | F13TBX/830/A/ECO |
| 41652                            | F13BX/E850       | 97566                 | F13BX/E/850/ECO  | 34400                            | F13TBX/SPX35/A/4    | 97621                 | F13TBX/835/A/ECO |
| 14583                            | F13BX/SPX27/CD   | 97567                 | F13BX/827/CDECO  | 34387                            | F13TBX/SPX41/A/4    | 97622                 | F13TBX/841/A/ECO |
| 41757                            | F13BX/SPX35 100P | 97568                 | F13BX/835 100P   | 47696                            | F13TBX827/4P/EOL    | 97623                 | F13TBX827/4P/ECO |
| 17048                            | F13BX/SPX35/835  | 97569                 | F13BX/835/ECO    | 34392                            | F18TBX/SPX27/A/4    | 97624                 | F18TBX/827/A/ECO |
| 41758                            | F13BX/SPX41 100P | 97570                 | F13BX/841 100P   | 34396                            | F18TBX/SPX30/A/4    | 97625                 | F18TBX/830/A/ECO |
| 20434                            | F13BX/SPX41/840  | 97571                 | F13BX/841/ECO    | 34405                            | F18TBX/SPX35/A/4    | 97626                 | F18TBX/835/A/ECO |
| 11671                            | F13BX/SPX50      | 97572                 | F13BX/850/ECO    | 34385                            | F18TBX/SPX41/A/4    | 97627                 | F18TBX/841/A/ECO |
| 14650                            | F13BXSPX27/827   | 97573                 | F13BX/827/ECO    | 48869                            | F18TBX827/4P/EOL    | 97628                 | F18TBX827/4P/ECO |
| 17612                            | F13BXSPX30/830   | 97574                 | F13BX/830/ECO    | 34393                            | F26TBX/SPX27/A/4    | 97614                 | F26TBX/827/A/ECO |
| 42065                            | F9DBX23T4/841    | 97575                 | F9DBX23/841/ECO  | 34397                            | F26TBX/SPX30/A/4    | 97615                 | F26TBX/830/A/ECO |
| 12409                            | F9DBX23T4SPX27/8 | 97576                 | F9DBX23/827/ECO  | 34406                            | F26TBX/SPX35/A/4    | 97616                 | F26TBX/835/A/ECO |
| 13578                            | F13DBX/SPX27/CD  | 97585                 | F13DBX/827/CD    | 34381                            | F26TBX/SPX41/A/4    | 97617                 | F26TBX/841/A/ECO |
| 18844                            | F13DBX23T4/SPX27 | 97586                 | F13DBX23/827/ECO | 48870                            | F26TBX827/4P/EOL    | 97618                 | F26TBX827/4P/ECO |
| 10574                            | F13DBX23T4/SPX30 | 97587                 | F13DBX23/830/ECO | 39377                            | F32TBX/SPX27A/4P    | 97629                 | F32TBX/827/A/ECO |
| 18556                            | F13DBX23T4/SPX35 | 97588                 | F13DBX23/835/ECO | 39378                            | F32TBX/SPX30A/4P    | 97630                 | F32TBX/830/A/ECO |
| 20531                            | F13DBX23T4/SPX41 | 97589                 | F13DBX23/841/ECO | 39379                            | F32TBX/SPX35A/4P    | 97631                 | F32TBX/835/A/ECO |
| 18557                            | F13DBXT4/SPX27   | 97590                 | F13DBX/827/ECO   | 39380                            | F32TBX/SPX41A/4P    | 97632                 | F32TBX/841/A/ECO |
| 12956                            | F13DBXT4/SPX30   | 97591                 | F13DBX/830/ECO   | 46312                            | F42TBX827A4P/EOL    | 97633                 | F42TBX/827/A/ECO |
| 18559                            | F13DBXT4/SPX35   | 97592                 | F13DBX/835/ECO   | 46313                            | F42TBX830A4P/EOL    | 97634                 | F42TBX/830/A/ECO |
| 20532                            | F13DBXT4/SPX41   | 97593                 | F13DBX/841/ECO   | 46314                            | F42TBX835A4P/EOL    | 97635                 | F42TBX/835/A/ECO |
| 30035                            | F13DBX/SPX27/4P  | 97594                 | F13DBX/827/ECO4P | 46315                            | F42TBX841A4P/EOL    | 97636                 | F42TBX/841/A/ECO |
| 10580                            | F13DBX/SPX30/4P  | 97595                 | F13DBX/830/ECO4P | 48861                            | F57QBX/827/A/4P/EOL | 48861                 | F57QBX/827/A/ECO |
| 30037                            | F13DBX/SPX35/4P  | 97596                 | F13DBX/835/ECO4P | 48862                            | F57QBX/830/A/4P/EOL | 48862                 | F57QBX/830/A/ECO |
| 30038                            | F13DBX/SPX41/4P  | 97597                 | F13DBX/841/ECO4P | 48863                            | F57QBX/835/A/4P/EOL | 48863                 | F57QBX/835/A/ECO |
| 12860                            | F18DBXT4/SPX27   | 97577                 | F18DBX/827/ECO   | 48864                            | F57QBX/841/A/4P/EOL | 48864                 | F57QBX/841/A/ECO |
| 12861                            | F18DBXT4/SPX30   | 97578                 | F18DBX/830/ECO   | 93404                            | F57QBX/850/A/4P/EOL | 93404                 | F57QBX/850/A/ECO |
| 12863                            | F18DBXT4/SPX35   | 97579                 | F18DBX/835/ECO   | 48865                            | F70QBX/827/A/4P/EOL | 48865                 | F70QBX/827/A/ECO |
| 12864                            | F18DBXT4/SPX41   | 97580                 | F18DBX/841/ECO   | 48866                            | F70QBX/830/A/4P/EOL | 48866                 | F70QBX/830/A/ECO |
| 12865                            | F18DBX/SPX27/4P  | 97598                 | F18DBX/827/ECO4P | 48867                            | F70QBX/835/A/4P/EOL | 48867                 | F70QBX/835/A/ECO |
| 12866                            | F18DBX/SPX30/4P  | 97599                 | F18DBX/830/ECO4P | 48868                            | F70QBX/841/A/4P/EOL | 48868                 | F70QBX/841/A/ECO |
| 12869                            | F18DBX/SPX35/4P  | 97600                 | F18DBX/835/ECO4P | 93406                            | F70QBX/850/A/4P/EOL | 93406                 | F70QBX/850/A/ECO |



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**QUARTZLINE® TUNGSTEN HALOGEN ..... 6-7**

**QUARTZLINE® TUNGSTEN HALOGEN HIGH VOLTAGE..... 6-8**

**CINEMA LAMPS**

Fluorescent Lamps ..... 6-9  
Fluorescent covRguard® Lamps..... 6-9  
Fluorescent Biax® ..... 6-10

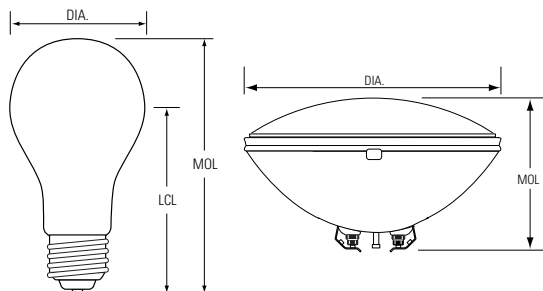
**CSR METAL HALIDE LAMPS**

Discharge-CSR/CSD (Daylight) Metal Halide, Single-Ended Cold Start..... 6-11  
Discharge-CSR (Daylight) Metal Halide, Single-Ended Short Arc..... 6-11  
Discharge-CSR (Daylight) Metal Halide, Single-Ended Hot Restrike ..... 6-11  
Discharge-CSR (Daylight) Metal Halide, Double-Ended Hot Restrike ..... 6-11  
CSR (Daylight) Metal Halide, Single-Ended Hot Restrike UV-Control..... 6-11

**ANSI CODES..... 6-12**



## BULB IDENTIFICATION



DIA: Diameter of bulb at widest point.

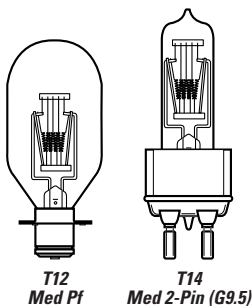
MOL: Maximum Overall Length including base or pins.

LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

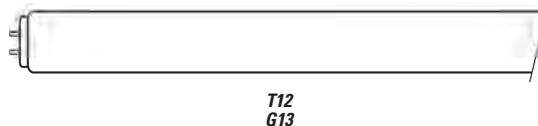
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4  
(i.e. inches x 25.4 = millimeters).

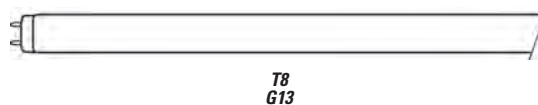
## LAMP LOCATOR



**Incandescent Lamps**



**T12  
G13**

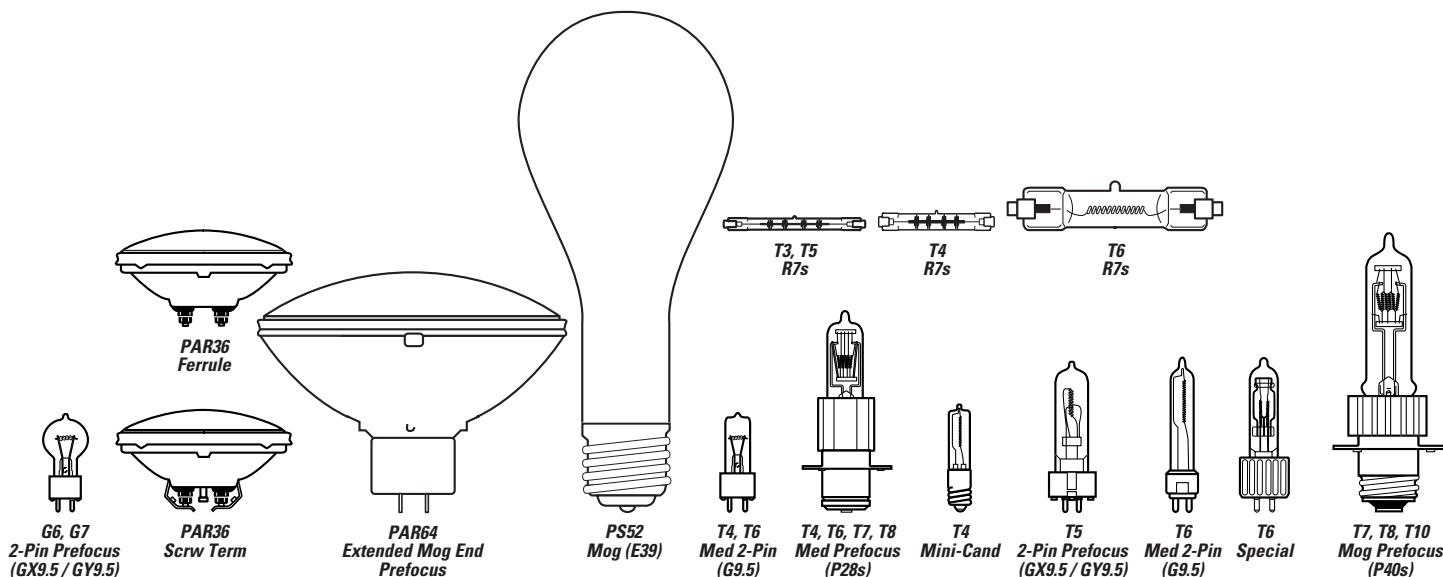


**T8  
G13**



**Biax®  
2G11**

**Fluorescent Cinema Lamps**



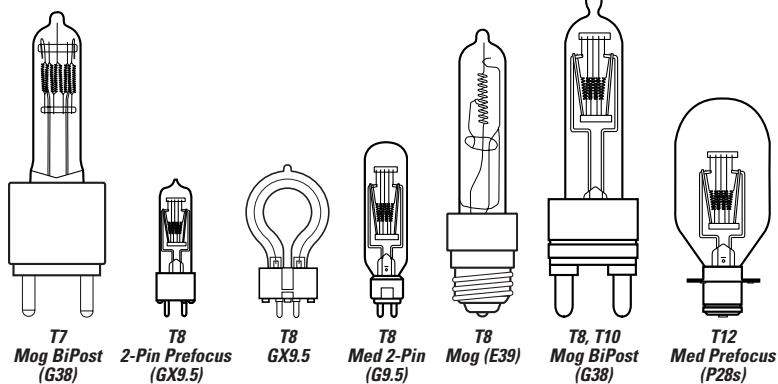
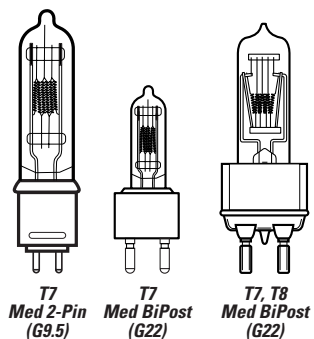
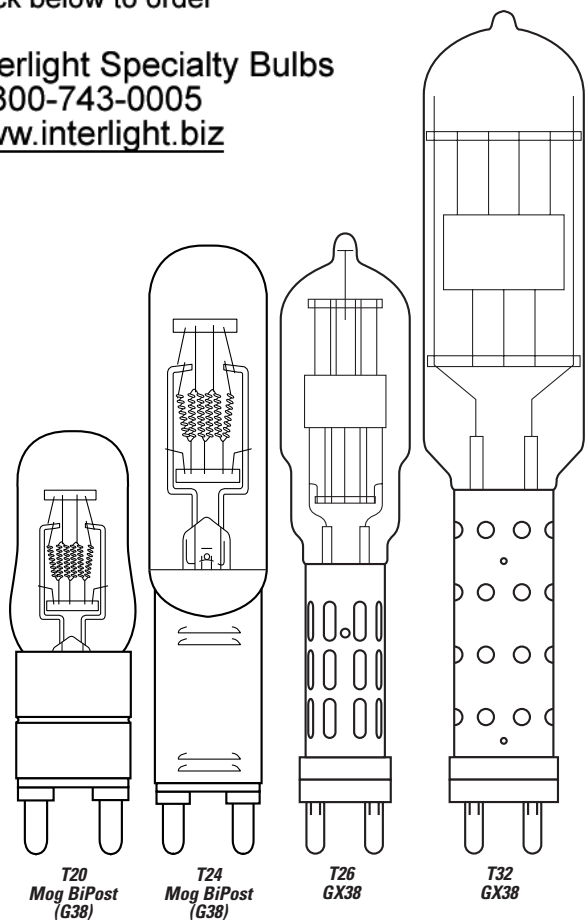
**Quartzline® Tungsten Halogen**

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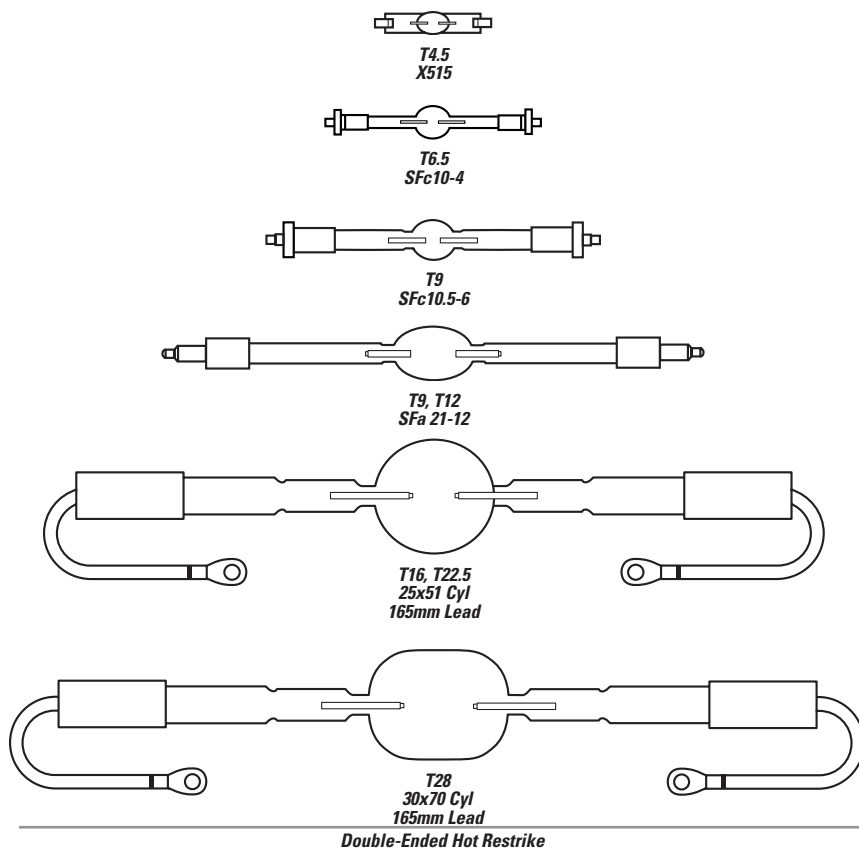
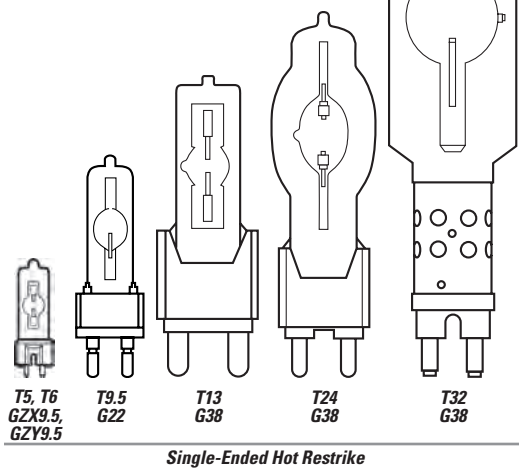
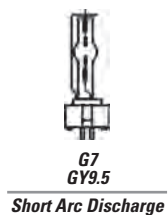
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Stage and Studio Lamps



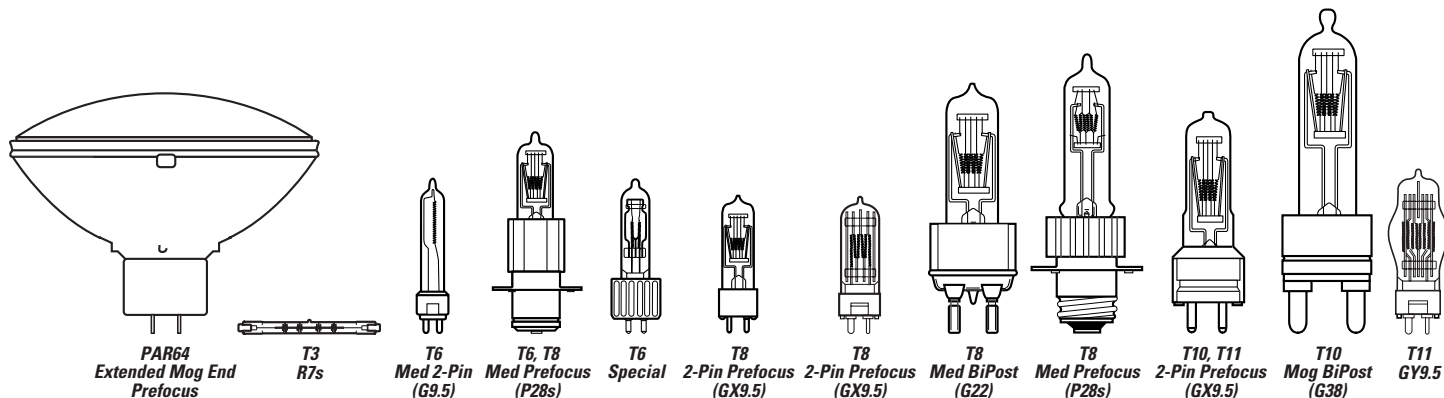
**Quartzline® Tungsten Halogen (Continued)**



**CSR Metal Halide Lamps**

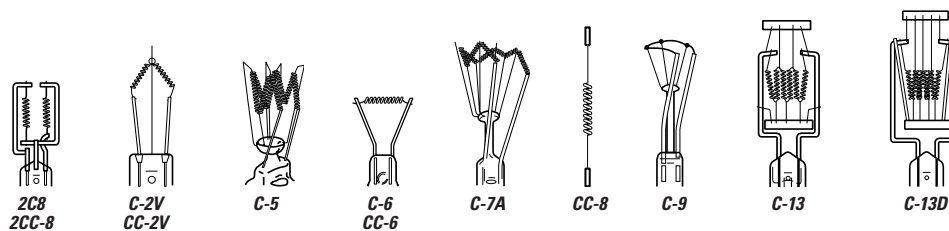


## LAMP LOCATOR (CONTINUED)

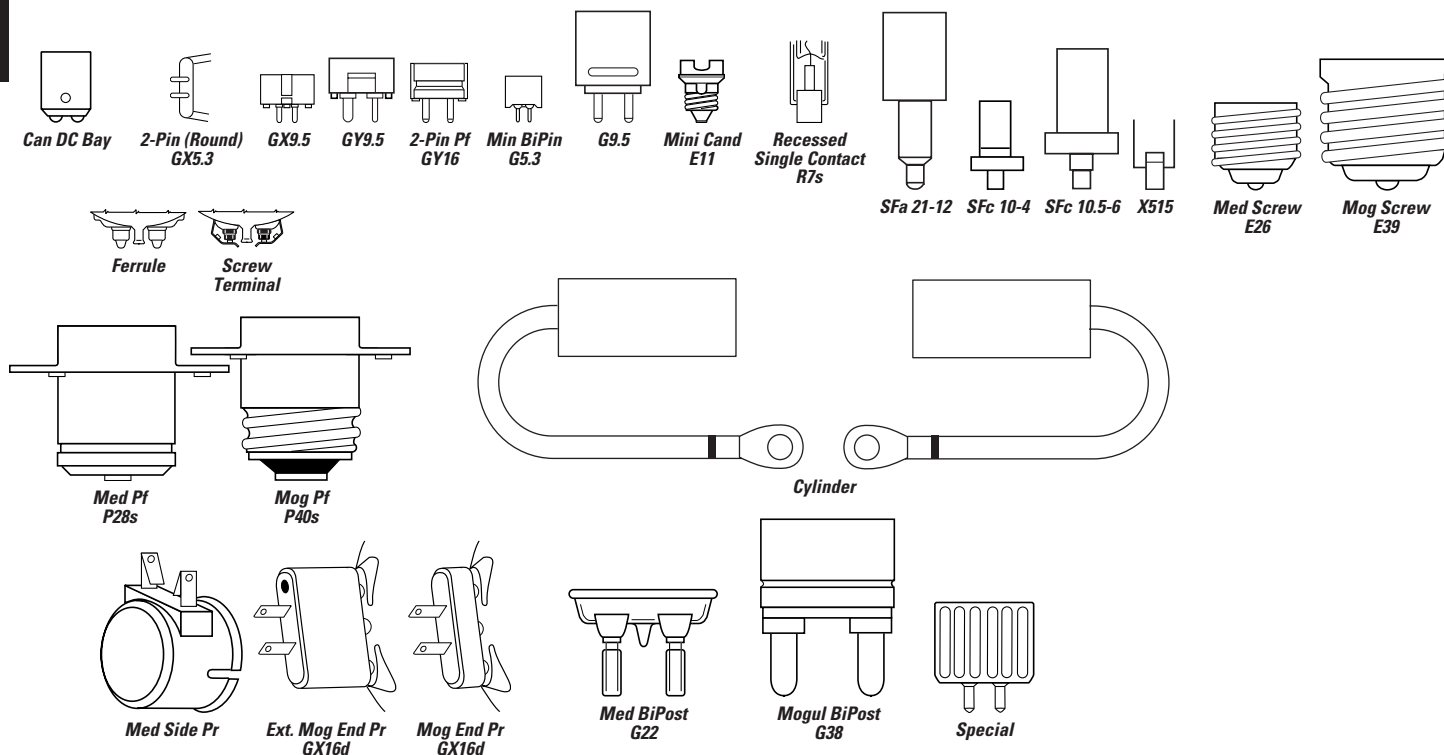


### Quartzline® Tungsten Halogen High Voltage

## FILAMENT IDENTIFICATION



## BASE IDENTIFICATION





## INTRODUCTION

GE has been a leading supplier to stage and studio users for many decades, and continues its pioneering work in the development of new and innovative light sources.

The primary change in recent years has been the migration from glass to quartz as the standard bulb material. The higher melting point of quartz enables bulb envelopes to be reduced in size and the halogen fillings to be run at higher pressures, leading to smaller, lighter, brighter, more energy-efficient and more reliable lamps.

GE's comprehensive range of single- and double-ended lamps is complemented by a group of PAR lamps, where the light source is enclosed in a sealed reflector unit.

## GENERAL INFORMATION

### OPERATIONAL CHARACTERISTICS

Quartz halogen lamps are designed to be operated within close voltage tolerances, and excessive voltage can lead to drastically shortened life, albeit with significantly higher light output.

A second important variable is temperature. The tungsten halogen cycle does not operate properly below about 482°F (250°C) and quartz may begin to devitrify above about 1832°F (1000°C). Bulb envelopes should therefore be held in the range 482-1472°F (250-800°C).

The contact pins are plated to ensure good electrical connection with the lampholder. However, at temperatures above 350°C, the plating may lose adhesion, leading to deterioration in contact and possibly local hot spots, arcing and consequent irreparable damage to both lamp and holder. Note that if there is evidence that this has occurred, the lampholder should be replaced before the next lamp is fitted, otherwise it is likely to fail prematurely for the same reason.

Lamps normally fail by fusing of the filament. This is often followed by arcing, leading to very high currents which can cause the envelope and seals to fail and the lamp to shatter. A quick-acting, high-breaking capacity fuse should therefore be connected to the supply line in all applications. Suitable types are given in IEC 127, 241 and 269.

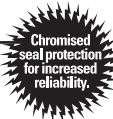
The beam patterns of PAR lamps range from very narrow spot to wide-angle floods. This ensures consistency from lamp to lamp, interchangeability to suit the beam pattern needs of the moment and instant replaceability without the need to refocus and re-aim fixtures.

The sealed beam design prolongs the life of the inner lamp as well as protecting it from dust, vapor and other hazards, thereby ensuring high lumen maintenance over the life of the lamp.

PAR lamps may be used with very simple, lightweight, economical fixtures.

### CHROMISE SEAL PROTECTION

Many Quartzline® Stage/Studio lamps have a special chromised seal protection, which allows lamp seal temperatures up to 500° C (vs traditional 350° C), which increases life and reliability.



If the package does not have this seal, lamp base temperatures for Quartzline® lamps should not exceed 350°C because, above that point, lead wires in the sealing area will deteriorate, and base cement can loosen, both causing premature lamp failure. Note overvoltage of a lamp will increase the seal heat.

### LAMP CODES

GE Stage & Studio lamps are coded as such:

Lamp Description. This may be either an American National Standards Institute (ANSI) three letter code such as EJJ, or a descriptive code in the general form Q750T3/4CL. ANSI codes are assigned to lamp specifications – mechanical, electrical and photometric characteristics – filed with the Institute.

They ensure interchangeability among similarly coded lamps from different manufacturers. Most of these lamps are rated for 120-volt operation. In a few cases a pair of ANSI codes are given (e.g. BFL/BFK), where the first is the official code for the lamp and the second code describes lamps the specifications of which are met or exceeded. In such cases, the lamps may be used to replace lamps with either code.

Base designations conform to IEC standards.

## PRODUCT INFORMATION

### GE CSR/CSD METAL HALIDE LAMPS

New GE range of metal halide lamps for use in a variety of applications including TV and film, stage, concerts, photographic and large screen presentation and color simulation.

- Excellent color rendering  $R_g > 90$
- Daylight color temperature, typically 6000K
- Universal burning position
- High efficiency up to 100 Lm/Watt
- Hot restrike and dimmable with stable color temperature
- Superior color stability
- Excellent lumen maintenance
- Use with electronic or AC magnetic ballast/ignitor control gear
- Applications include inside and outside TV and film production, stage, concerts, sporting events, photographic studios, overhead and large screen projection and color simulation.

### GE CINEMA FLUORESCENT LAMPS

- High CRI (Color Rendering Index)... traditional fluorescent lamps have not been widely used in photography and film making because of relatively low CRI and the prominent green spike found in typical fluorescent phosphors. GE Lighting Cinema 32 and Cinema 55 lamps have corrected these deficiencies with products that now have a CRI of 95 (out of 100 max.) and colors that respond to the spectral sensitivity curves of film and electronic imaging media.
- Optional Shatter Resistance... GE Cinema 32 and 55 offer the option of GE's exclusive covRguard® shatter resistance that helps contain glass fragments if the lamps are broken. Reduce the possibility of glass related injuries to irreplaceable talent, damage to expensive sets, contamination of delicate equipment or missing critical deadlines because GE offers shatter resistance. GE's covRguard® process wraps the Cinema lamps in a full 15 ml thick casing of GE's exclusive Lexan™ polycarbonate that helps contain the glass, phosphor and chemicals if the lamp is broken. Unlike other shatter-resistant lamps, GE's covRguard® lamps require no assembly.



## PRODUCT INFORMATION (CONTINUED)

- Superior Light Output... the GE covRguard® process offers maximum protection with minimal light loss... the lowest loss of initial light of other shielded products.
- Dependable UV Blocking... the GE covRguard® process also offers excellent UV blocking. CovRguard® blocks 98% of the UV that is normally transmitted from an unprotected fluorescent lamp — all UVC, all UVB and most of UVA. This is critical for protecting expensive sets and wardrobe from the fading effects of UV exposure.

- Chromaticity... the Cinema 32 has a chromaticity of X=.415 and Y=.377 with a CRI of 95. The Cinema 32 mixes well with both incandescent and quartz halogen light sources without color corrections. The Cinema 55 is a broad band spectrum daylight lamp with a chromaticity of X=.325 and Y=.321 and a CRI of 96. The Cinema 55 mixes well with ambient daylight and short arc discharge HID light sources without color corrections.

For more detailed information on all GE Stage and Studio lighting order "Showbiz®" 2005, PC 23766 from your GE sales representative.

## HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Stage/Studio lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage.

| Watts:                                                                                              |       | Volts:                                            |       | Case Quantity:                                                                                                      |          | Approximate CBCP (Center Beam Candlepower):                                                                                                                                                                                           |           | Color Temperature - Kelvins (K):                                                                                                           |      | Filament Design:                                                                                                                                                                                                                                      |                 | MOL in.:                                                                                            |      | Beam Spread:                                                                                                                                                          |           | Rated Life - Hours:                           |           | Footnotes:            |           |
|-----------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------|-----------|-----------------------|-----------|
| Energy used. To find actual energy used (kWh) multiply power (watts shown) x time divided by 1000.  |       | Lamp data is based on operation at rated voltage. |       | Number of product units packed in a case.                                                                           |          | For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.                                                                                                         |           | A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears. |      | Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement. |                 | Maximum Overall Length in inches.                                                                   |      | For reflector type lamps. The total angle of the directed beam (in degrees) to where the intensity of the beam falls to 50% or 10% of the maximum value as indicated. |           | Lamp burning hours to median life expectancy. |           | See pg 6-12.          |           |
| Shape:                                                                                              |       | Base:                                             |       | Order Code:                                                                                                         |          | LIF Code:                                                                                                                                                                                                                             |           | Description:                                                                                                                               |      | Lumens Initial:                                                                                                                                                                                                                                       |                 | LCL in.:                                                                                            |      | Lumens Initial:                                                                                                                                                       |           | Lumens Initial:                               |           | Lumens Initial:       |           |
| Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch). |       | The type of base (ANSI).                          |       | It is important to use this five-digit code when ordering to ensure that you receive the exact product you require. |          | These are assigned by the Lighting Federation of London, U.K. They ensure electrical and mechanical interchangeability of similarly coded lamps. LIF codes are divided into groups according to the primary application of the lamps. |           | The lamp's identification code.                                                                                                            |      | Initial light output.                                                                                                                                                                                                                                 |                 | Distance between the center of the filament and the Light Center Length reference plane, in inches. |      | Initial light output.                                                                                                                                                 |           | Initial light output.                         |           | Initial light output. |           |
| Watts                                                                                               | Shape | Base                                              | Volts | Order Code                                                                                                          | LIF Code | Description                                                                                                                                                                                                                           | Case Qty. | Lumens Initial                                                                                                                             | CBCP | Color Temp. K                                                                                                                                                                                                                                         | Filament Design | MOL                                                                                                 | LCL  | 10% Horiz.                                                                                                                                                            | 50% Vert. | 10% Horiz.                                    | 50% Vert. | Rated Life Hours      | Footnotes |
| <b>QUARTZLINE® TUNGSTEN HALOGEN</b>                                                                 |       |                                                   |       |                                                                                                                     |          |                                                                                                                                                                                                                                       |           |                                                                                                                                            |      |                                                                                                                                                                                                                                                       |                 |                                                                                                     |      |                                                                                                                                                                       |           |                                               |           |                       |           |
| 500                                                                                                 | T6    | Med Pf (P28s)                                     | 120   | 11966                                                                                                               | T17      | BTL-Q500T6/CL/P                                                                                                                                                                                                                       | 12        | 11000                                                                                                                                      |      | 3000                                                                                                                                                                                                                                                  | C-13            | 5.25                                                                                                | 2.18 |                                                                                                                                                                       |           |                                               |           | 500                   | 3, 12     |

### BTL- Q500 T6/CL/P

Identifies the lamp ANSI code.

Identifies the lamp's wattage.  
Q=Quartz Halogen

Identifies the lamp shape and the bulb diameter in eighths of inches.

#### WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using tables on pages 6-2 – 6-4.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 6-4.
4. Find your lamp in the table containing the bulb shape, size and base.

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[www.interlight.biz](http://www.interlight.biz)



## Stage and Studio Lamps

| Watts                        | Shape         | Base              | Order<br>Volts | LIF<br>Code       | Description         | Case<br>Qty. | Lumens<br>Initial | CBCP  | Color      |       | Filament<br>Design | MOL  | LCL | Beam Spread |      | Rated<br>Life<br>Hours | Footnotes |    |
|------------------------------|---------------|-------------------|----------------|-------------------|---------------------|--------------|-------------------|-------|------------|-------|--------------------|------|-----|-------------|------|------------------------|-----------|----|
|                              |               |                   |                |                   |                     |              |                   |       | Temp.<br>K |       |                    |      |     | 10%         | 50%  |                        |           |    |
| QUARTZLINE® TUNGSTEN HALOGEN |               |                   |                |                   |                     |              |                   |       |            |       |                    |      |     |             |      |                        |           |    |
| 200                          | T4            | Cand DC Bay BA15d | 120            | 14119             | FEV-Q200/4CL/DC     | 6            | 5500              |       | 3200       | CC-2V | 2.43               | 1.37 |     |             |      | 50                     | 12        |    |
| 300                          | T8            | 2-Pin Pf (GY9.5)  | 120            | 39781             | CP81 FKW-Q300T8     | 24           | 6900              |       | 3200       | C-13  | 3.54               | 1.81 |     |             |      | 50                     | 12        |    |
| 350                          | T2            | R7S               | 120            | 20881             | FDF/HIR-Q350T2/4    | 6            | 13250             |       | 3200       | C-8   | 4.68               |      |     |             |      | 400                    | ↔ 2, 12   |    |
| 375                          | T6            | Special           | 115            | 17608             | HPL375/C 115V       | 12           | 10540             |       | 3250       | 4-C8  | 4.17               | 2.37 |     |             |      | 300                    | 12        |    |
|                              |               |                   |                | 18189             | HPL375/LL/C 115V    | 12           | 8000              |       | 3050       | 4-C8  | 4.17               | 2.37 |     |             | 1000 | 12                     |           |    |
| 420                          | G7            | 2-Pin Pf (GY9.5)  | 120            | 33934             | EKB-Q420/4CL/2PP    | 24           | 11000             |       | 3200       | CC-6  | 2.5                | 1.43 |     |             |      | 75                     | 12        |    |
| 500                          | T3            | R7S               | 120            | 23735             | FDF-Q500T3/4CL      | 12           | 13250             |       | 3200       | C-8   | 4.68               |      |     |             |      | 400                    | 2, 12     |    |
|                              |               |                   |                | 23734             | P2/31 FDN-Q500T3/4  | 12           | 12800             |       | 3200       | C-8   | 4.68               |      |     |             | 400  | 2, 7, 12               |           |    |
|                              | T4            | Med Pf (P28s)     | 120            | 39135             | EGE-Q500CL/P        | 12           | 10450             |       | 2950       | CC-8  | 6                  | 3.5  |     |             |      | 2000                   | 12        |    |
|                              |               | Mini-Cand (E11)   | 120            | 47950             | EVR-Q500CL/MC       | 6            | 10450             |       | 2950       | CC-8  | 3.62               | 2    |     |             |      | 2000                   | 8, 12     |    |
|                              | T6            | Med Pf (P28s)     | 120            | 11966             | T17 BTL-Q500T6/CL/P | 12           | 11000             |       | 3000       | C-13  | 5.25               | 2.18 |     |             |      | 500                    | 3, 12     |    |
|                              |               |                   |                | 16465             | BTM-Q500T64CL/2P    | 12           | 13000             |       | 3200       | C-13  | 5.25               | 2.18 |     |             |      | 150                    | 3, 12     |    |
|                              | T7            | Med BiPost (G22)  | 120            | 30373             | EGN-Q500T8          | 12           | 13000             |       | 3200       | C-13  | 5.51               | 2.5  |     |             |      | 150                    | 12        |    |
|                              | T6            | Med 2-Pin (G9.5)  | 120            | 39768             | EHD-Q500CL/TP       | 24           | 10000             |       | 2900       | CC-8  | 4.1                | 2.37 |     |             |      | 2000                   | 12        |    |
|                              |               |                   |                | 39789             | EHC-Q500/5CL        | 24           | 12700             |       | 3150       | CC-8  | 4.1                | 2.37 |     |             |      | 500                    | 12        |    |
|                              | T8            | 2-Pin Pf (GY9.5)  | 120            | 39623             | CP82 FRG-Q500T8     | 24           | 13000             |       | 3200       | C-13  | 3.54               | 1.81 |     |             |      | 150                    | 3, 12     |    |
|                              | T4            | Med Pf (P28s)     | 120            | 39134             | EGC-Q500/5CL/P      | 12           | 12700             |       | 3150       | CC-8  | 6                  | 3.5  |     |             |      | 500                    | 12        |    |
| 525                          | T3            | R7S               | 120            | 20883             | EJG/HIR-Q525T2 -1   | 6            | 20600             |       | 3250       | C-8   | 4.68               |      |     |             |      | 400                    | ↔ 2, 12   |    |
| 550                          | T6            | Special           | 115            | 17607             | HPL550/C 77 V       | 12           | 16170             |       | 3250       | 4-C8  | 4.17               | 2.37 |     |             |      | 300                    | 12        |    |
| 575                          | T6            | Med 2-Pin (G9.5)  | 115            | 39730             | FLK/LL-Q575T6       | 24           | 12800             |       | 2950       | CC-8  | 4.1                | 2.37 |     |             |      | 1500                   | 12        |    |
|                              |               |                   |                | 11450             | FLK-Q575T6/4CL      | 24           | 16500             |       | 3200       | CC-8  | 4.1                | 2.37 |     |             |      | 300                    | 12        |    |
|                              |               |                   |                | 93428             | GLA-Q575T6/4CL      | 24           | 13000             |       | 3050       | C-13D | 4.1                | 2.37 |     |             |      | 1500                   | 12        |    |
|                              |               |                   |                | 93429             | GLC-Q575T6/5CL      | 24           | 14500             |       | 3200       | C-13D | 4.1                | 2.37 |     |             |      | 300                    | 12        |    |
|                              | Special       |                   | 115            | 92431             | HPL575/C115V        | 12           | 16500             |       | 3200       | 4C-8  | 4.2                | 2.37 |     |             |      | 300                    | 12        |    |
|                              |               |                   |                | 92434             | HPL575/LL/C 115V    | 12           | 12360             |       | 3050       | 4C-8  | 4.2                | 2.37 |     |             |      | 1500                   | 12        |    |
|                              |               |                   | 120            | 92433             | HPL575/C 120V       | 12           | 16520             |       | 3200       | 4C-8  | 4.2                | 2.37 |     |             |      | 300                    | 12        |    |
|                              |               |                   |                | 92435             | HPL575/LL/C 120V    | 12           | 12360             |       | 3050       | 4C-8  | 4.2                | 2.37 |     |             |      | 2000                   | 12        |    |
|                              |               |                   |                |                   |                     |              |                   |       |            |       |                    |      |     |             |      |                        |           |    |
|                              |               |                   |                |                   |                     |              |                   |       |            |       |                    |      |     |             |      |                        |           |    |
| 600                          | T5            | 2-Pin Pf (GY9.5)  | 120            | 30475             | FMR-Q600T5          | 24           | 12600             |       | 3050       | CC-8  | 3.4                | 2    |     |             |      | 2000                   | 3, 12     |    |
| 650                          | G6            | 2-Pin Pf (GX9.5)  | 120            | 34328             | EKD-Q650/3CL/2PP    | 24           | 20000             |       | 3300       | CC-6  | 2.5                | 1.43 |     |             |      | 25                     | 3, 12     |    |
|                              |               | PAR36 Ferrule     | 120            | 41668             | FAY-Q650PAR36/3D    | 12           |                   | 36000 | 5000       | C-7A  | 2.75               |      |     |             | 25   | 15                     | 30        | 13 |
|                              |               |                   |                | 41672             | FCW-Q650PAR36/6     | 12           |                   | 9000  | 3200       | C-7A  | 2.75               |      |     |             | 60   | 55                     | 100       | 13 |
|                              |               |                   |                | 41673             | FCX-Q650PAR36/7     | 12           |                   | 24000 | 3200       | C-7A  | 2.75               |      |     |             | 40   | 30                     | 100       | 13 |
|                              | Screw Term    |                   | 120            | 41667             | DWE-Q650PAR36/1     | 12           |                   | 24000 | 3200       |       | 2.75               |      |     |             | 40   | 30                     | 100       | 13 |
|                              |               |                   |                | 41669             | FBE-Q650PAR36/5D    | 12           |                   | 36000 | 5000       | C-7A  | 2.75               |      |     |             | 25   | 15                     | 30        | 13 |
|                              |               |                   |                | 41671             | FBO-Q650PAR36/5     | 12           |                   | 67000 | 3400       | C-7A  | 2.75               |      |     |             | 25   | 15                     | 30        | 13 |
|                              |               |                   |                |                   |                     |              |                   |       |            |       |                    |      |     |             |      |                        |           |    |
|                              | T3            | R7S               | 120            | 13895             | FCM/HIR-Q650T3/4    | 6            | 25200             |       | 3275       | C-8   | 4.68               |      |     |             |      | 400                    | ↔ 2, 12   |    |
|                              | T4            | R7S               | 120            | 30325             | P2/6 FAD-Q650T4/4CL | 24           | 16500             |       | 3200       | CC-8  | 3.13               |      |     |             |      | 100                    | 12        |    |
|                              |               |                   | 30343          | P2/6 FBX-Q650T4/4 | 24                  | 16500        |                   | 3200  | CC-8       | 3.13  |                    |      |     |             | 100  | 7, 12                  |           |    |
|                              | T8            | 2-Pin Pf (GY9.5)  | 120            | 39637             | CP89 FRK-Q650T8     | 24           | 16900             |       | 3200       | C-13  | 3.54               | 1.81 |     |             |      | 200                    | 3, 12     |    |
| 675                          | T3            | R7S               | 120            | 20884             | FFT/HIR-Q675T3/4    | 6            | 26400             |       | 3250       | C-8   | 6.56               |      |     |             |      | 400                    | ↔ 2, 12   |    |
| 750                          | T3            | R7S               | 120            | 23756             | EJG-Q750T3/4CL      | 12           | 20600             |       | 3200       | C-8   | 4.68               |      |     |             |      | 400                    | 2, 12     |    |
|                              |               |                   |                | 23755             | EMD-Q750T3/4        | 12           | 19500             |       | 3200       | C-8   | 4.68               |      |     |             |      | 400                    | 2, 12     |    |
|                              | T6            | Med 2-Pin (G9.5)  | 120            | 39771             | EHF-Q750/4CL        | 24           | 20000             |       | 3200       | CC-8  | 4.1                | 2.37 |     |             |      | 300                    | 12        |    |
|                              |               |                   |                | 39770             | EHG-Q750CL/TP       | 24           | 15000             |       | 3000       | CC-8  | 4.1                | 2.37 |     |             |      | 2000                   | 12        |    |
|                              |               |                   |                | 92771             | GLD-Q750T6/4CL      | 24           | 19000             |       | 3200       | C-13D | 4.1                | 2.37 |     |             |      | 300                    | 12        |    |
|                              |               |                   |                | 92773             | GLE-Q750T6/4CL      | 24           | 17400             |       | 3050       | C-13D | 4.1                | 2.37 |     |             |      | 1500                   | 12        |    |
|                              | Med Pf (P28s) |                   | 120            | 39136             | EGF-Q750/4CL/P      | 12           | 20400             |       | 3200       | CC-8  | 6                  | 3.5  |     |             |      | 300                    | 12        |    |
|                              |               |                   |                | 39137             | EGG-Q750CL/P        | 12           | 15750             |       | 3000       | CC-8  | 6                  | 3.5  |     |             |      | 2000                   | 12        |    |
|                              | Special       |                   | 115            | 92432             | HPL750/C 115V       | 12           | 22000             |       | 3200       | 4-C-8 | 4.17               | 2.37 |     |             |      | 300                    | 12        |    |
|                              |               |                   |                | 92770             | HPL750/LL/C         | 12           | 16400             |       | 3050       | 4-C-8 | 4.17               | 2.37 |     |             |      | 1500                   | 12        |    |



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| Watts                                     | Shape | Base             | Volts | Order | LIF              | Description      | Case Qty.       | Lumens Initial  | CBCP          | Color   | Filament | MOL   | LCL  | Beam Spread |       |      |        | Rated Life Hours | Footnotes |
|-------------------------------------------|-------|------------------|-------|-------|------------------|------------------|-----------------|-----------------|---------------|---------|----------|-------|------|-------------|-------|------|--------|------------------|-----------|
|                                           |       |                  |       | Code  | Code             |                  |                 |                 |               | Temp. K | Design   |       |      | 10%         | Vert. | 50%  | Vert.  |                  |           |
| QUARTZLINE® TUNGSTEN HALOGEN (CONTINUED)  |       |                  |       |       |                  |                  |                 |                 |               |         |          |       |      |             |       |      |        |                  |           |
| 750                                       | T7    | Med BiPost (G22) | 120   | 39190 |                  | EGR-Q750T7/4CL   | 12              | 21000           |               | 3200    | C-13D    | 5     | 2.5  |             |       |      |        | 200              | 1, 3, 12  |
|                                           |       | Med Pf (P28s)    | 120   | 11953 |                  | BTN-Q750T7/CL/2P | 12              | 17600           |               | 3050    | C-13D    | 4.75  | 2.18 |             |       |      |        | 500              | 1, 11, 12 |
|                                           |       |                  |       | 11954 |                  | BTP-Q750T7/4CL2P | 12              | 21000           |               | 3200    | C-13D    | 4.75  | 2.18 |             |       |      |        | 200              | 1, 11, 12 |
|                                           |       | Med 2-Pin (G9.5) | 120   | 39680 |                  | BWM-Q750T7/4CLTP | 6               | 21000           |               | 3200    | C-13D    | 4.5   | 2.37 |             |       |      |        | 200              | 1, 3, 12  |
| 1000                                      | PAR64 | ExMogEndPr       | 120   | 13233 |                  | FFN-Q1000PAR64/1 | 6               |                 | 400000        | 3200    | C-7A     | 6     |      | 24          | 10    | 12   | 6      | 800              | 13        |
|                                           |       |                  |       | 13229 |                  | FFP-Q1000PAR64/2 | 6               |                 | 330000        | 3200    | C-7A     | 6     |      | 26          | 14    | 14   | 7      | 800              | 13        |
|                                           |       |                  |       | 13228 |                  | FFR-Q1000PAR64/5 | 6               |                 | 125000        | 3200    | C-7A     | 6     |      | 44          | 21    | 28   | 12     | 800              | 13        |
|                                           |       |                  |       | 13227 |                  | FFS-Q1000PAR64/6 | 6               |                 | 40000         | 3200    | C-7A     | 6     |      | 71          | 45    | 48   | 24     | 800              | 13        |
|                                           |       |                  |       | 13226 |                  | FGM-Q1000PAR64/3 | 6               |                 | 200000        | 5200    | C-7A     | 6     |      | 24          | 12    | 13   | 6      | 200              | 13        |
|                                           |       |                  |       | 13225 |                  | FGN-Q1000PAR647D | 6               |                 | 70000         | 5200    | C-7A     | 6     |      | 43          | 20    | 27   | 11     | 200              | 13        |
|                                           | PS52  | Mog (E39)        | 120   | 39582 |                  | DKZ/DSE-Q1000PS5 | 12              | 28000           |               | 3200    | CC-8     | 13    | 9.5  |             |       |      |        | 750              | 1, 13     |
|                                           | ED37  | Mog (E39)        | 120   | 34377 |                  | DSE/Q1000        | 10              | 28000           |               | 3200    | CC-8     | 13    | 9.5  |             |       |      |        | 750              | 1, 13     |
|                                           | T3    | R7S              | 120   | 23797 | P2/28            | FCM-Q1000T3/4CL  | 12              | 28000           |               | 3200    | C-8      | 4.68  |      |             |       |      |        | 400              | 2, 12     |
|                                           |       |                  |       | 33280 |                  | FFT-Q1000T3/1CL  | 12              | 26400           |               | 3200    | C-8      | 6.56  |      |             |       |      | 400    | 2, 12            |           |
|                                           |       |                  |       | 23792 | P2/29            | FHM-Q1000T3/4    | 12              | 27300           |               | 3200    | C-8      | 4.68  |      |             |       |      | 400    | 2, 7, 12         |           |
|                                           |       |                  |       | 185   | 23788            |                  | EJD-Q1000T3/3CL | 12              | 33600         |         | 3350     | C-8   | 4.68 |             |       |      | 100    | 2, 12            |           |
|                                           | T5    | R7S              | 120   | 30157 |                  | DXW-Q1000T5/4CL  | 24              | 28000           |               | 3200    | CC-8     | 3.75  |      |             |       |      |        | 150              | 12        |
|                                           |       |                  |       | 30374 |                  | FBY-Q1000T5/4    | 24              | 26000           |               | 3200    | CC-8     | 3.75  |      |             |       |      | 150    | 7, 12            |           |
|                                           |       |                  |       | T6    | Med 2-Pin (G9.5) | 120              | 39769           | CP77            | FEL-Q1000/4CL | 24      | 27500    |       | 3200 | CC-8        | 4.1   | 2.37 |        |                  |           |
|                                           | T6    | Med Pf (P28s)    | 120   | 38853 |                  | EGJ-Q1000/4CL/P  | 12              | 27500           |               | 3200    | CC-8     | 6     | 3.5  |             |       |      |        | 300              | 12        |
|                                           |       |                  |       | 38852 |                  | EGK-Q1000/4/P    | 12              | 26500           |               | 3200    | CC-8     | 6     | 3.5  |             |       |      | 300    | 12               |           |
|                                           |       |                  |       | 39138 |                  | EGM-Q1000CL/P    | 12              | 21500           |               | 3000    | CC-8     | 6     | 3.5  |             |       |      | 2000   | 12               |           |
|                                           |       |                  |       | R7S   | 120              | 33760            |                 | FER-Q1000T6/4CL | 6             | 27500   |          | 3200  | CC-8 | 5.62        |       |      |        | 500              | 12        |
| Med 2-Pin (G9.5)                          |       | 120              | 35853 |       | FCV-Q1000/4      | 6                | 26500           |                 | 3200          | CC-8    | 4.1      | 2.37  |      |             |       | 375  | 10, 12 |                  |           |
| T7                                        |       | Med 2-Pin (G9.5) | 120   | 39792 |                  | BWN-Q1000T7/4CL  | 24              | 28500           |               | 3200    | C-13D    | 4.5   | 2.37 |             |       |      |        | 250              | 1, 3, 12  |
|                                           |       | Med Pf (P28s)    | 120   | 11955 |                  | BTR-Q1000T74CL2P | 12              | 28500           |               | 3200    | C-13D    | 4.75  | 2.18 |             |       |      |        | 250              | 1, 12     |
|                                           |       | Med BiPost (G22) | 120   | 39191 |                  | EGT-Q1000T7/4CL  | 12              | 28500           |               | 3200    | C-13D    | 5     | 2.5  |             |       |      |        | 250              | 1, 3, 12  |
|                                           |       | Mog BiPost (G38) | 120   | 42697 |                  | CYVQ1000T7/4CLBP | 6               | 28500           |               | 3200    | C-13D    | 8     | 5    |             |       |      |        | 200              | 1, 3, 12  |
|                                           |       | Mog Pf (P40s)    | 120   | 12554 |                  | BVT-Q1MT7/CL/MP  | 6               | 24500           |               | 3050    | C-13D    | 7.25  | 3.93 |             |       |      |        | 500              | 1, 3, 12  |
|                                           |       |                  | 12553 |       | BVV-Q1MT7/4CL/MP | 6                | 28500           |                 | 3200          | C-13D   | 7.25     | 3.93  |      |             |       |      | 200    | 1, 3, 12         |           |
| 1200                                      | PAR64 | ExMogEndPr       | 120   | 34812 |                  | GFA-Q1200PAR64/5 | 6               |                 | 160000        | 3200    | C-7A     | 6     |      | 22          | 36    | 13   | 24     | 400              | 13        |
|                                           |       |                  |       | 34810 |                  | GFB-Q1200PAR64/2 | 6               |                 | 450000        | 3200    | C-7A     | 6     |      | 16          | 18    | 8    | 10     | 400              | 13        |
|                                           |       |                  |       | 34808 |                  | GFC-Q1200PAR64/1 | 6               |                 | 540000        | 3200    | C-7A     | 6     |      | 14          | 16    | 8    | 10     | 400              | 13        |
| 1500                                      | PS52  | Mog (E39)        | 120   | 40357 |                  | DKX/DSFQ1500PS52 | 12              | 41000           |               | 3200    | C-8      | 13    |      |             |       |      |        | 1000             | 1, 13     |
|                                           | ED37  | Mog (E39)        | 120   | 34378 |                  | DSF/Q1500        | 10              | 41000           |               | 3200    | C-8      | 13    |      |             |       |      |        | 1000             | 1, 13     |
|                                           | T4    | R7S              | 120   | 23841 |                  | FDB-Q1500T4/4CL  | 12              | 41250           |               | 3200    | C-8      | 6.56  |      |             |       |      |        | 400              | 2, 12     |
|                                           |       |                  |       | 41229 |                  | FGT-Q1500T4/4    | 12              | 40200           |               | 3200    | C-8      | 6.56  |      |             |       |      |        | 400              | 2, 7, 12  |
|                                           | T8    | Mog Pf (P40s)    | 120   | 30522 |                  | DTA-Q1500T8/4CL  | 6               | 41000           |               | 3200    | C-13D    | 7.87  | 3.43 |             |       |      |        | 300              | 3, 12     |
|                                           | T10   | Mog BiPost (G38) | 120   | 37564 |                  | CXZ-Q1500T10/4CL | 6               | 44500           |               | 3200    | C-13     | 8.5   | 5    |             |       |      |        | 400              | 1, 3, 12  |
| 2000                                      | T10   | R7S              | 120   | 39790 | P2/27            | FEY-Q2000T8/4CL  | 12              | 57000           |               | 3200    | CC-8     | 5.62  |      |             |       |      |        | 400              | 2, 12     |
|                                           | T8    | Mog (E39)        | 120   | 37086 |                  | BWF-Q2000/4CL    | 6               | 54000           |               | 3200    | CC-8     | 7.5   | 5.25 |             |       |      |        | 500              | 12        |
|                                           |       | Mog BiPost (G38) | 120   | 39587 |                  | BWA-Q2000/4CL/BP | 6               | 54000           |               | 3200    | CC-8     | 8.25  | 5    |             |       |      |        | 500              | 3, 12     |
|                                           | T10   | Mog BiPost (G38) | 120   | 36636 |                  | CYX-Q2000T10/4CL | 6               | 59000           |               | 3200    | C-13     | 8.5   | 5    |             |       |      |        | 350              | 1, 3, 12  |
|                                           |       | Mog Pf (P40s)    | 120   | 12555 | CP53             | BVWQ2MT10/4CL/MP | 6               | 59000           |               | 3200    | C-13     | 8.46  | 3.93 |             |       |      |        | 350              | 3, 12     |
| 5000                                      | T20   | Mog BiPost (G38) | 120   | 41736 | CP29             | DPY-Q5000T20/4CL | 6               | 143000          |               | 3200    | C-13     | 11    | 6.5  |             |       |      |        | 500              | 1, 4, 12  |
| 10000                                     | T24   | Mog BiPost (G38) | 120   | 24886 |                  | DTY-Q10M/T24/4CL | 4               | 290000          |               | 3200    | C-13     | 15.75 | 10   |             |       |      |        | 300              | 1, 4, 12  |
| 12000                                     | T26   | GX38             | 120   | 48770 |                  | Q12MT26/4CL 120V | 1               | 420000          |               | 3400    | C-13     | 16.14 | 10   |             |       |      |        | 150              | 4, 12     |
| QUARTZLINE® TUNGSTEN HALOGEN HIGH VOLTAGE |       |                  |       |       |                  |                  |                 |                 |               |         |          |       |      |             |       |      |        |                  |           |
| 575                                       | T6    | Special          | 230   | 37128 |                  | HPL575           | 12              | 14900           |               | 3200    | 6C-8     | 4.2   | 2.37 |             |       |      |        | 300              | 12        |
|                                           |       |                  |       | 37817 |                  | HPL575/LL 230V   | 12              | 11780           |               | 3050    | 6C-8     | 4.2   | 2.37 |             |       |      |        | 1500             | 12        |

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| Watts                                                 | Shape | Base               | Order<br>Volts Code | LIF<br>Code | Description              | Case<br>Qty. | Lumens<br>Initial | CBCP   | Color<br>Temp. K | Filament<br>Design | MOL   | LCL   | 10%<br>Horiz. | Beam Spread<br>Vert. | 50%<br>Horiz. | Vert. | Rated<br>Life<br>Hours | Footnotes |
|-------------------------------------------------------|-------|--------------------|---------------------|-------------|--------------------------|--------------|-------------------|--------|------------------|--------------------|-------|-------|---------------|----------------------|---------------|-------|------------------------|-----------|
| QUARTZLINE® TUNGSTEN HALOGEN HIGH VOLTAGE (CONTINUED) |       |                    |                     |             |                          |              |                   |        |                  |                    |       |       |               |                      |               |       |                        |           |
| 600                                                   | T6    | Med 2-Pin (G9.5)   | 230 39739           |             | GKV-Q575T6/4CL           | 24           | 14000             |        | 3200             | C-13               | 4.1   | 2.37  |               |                      |               |       | 250                    | 12        |
| 750                                                   | T6    | Special            | 230 37824           |             | HPL750                   | 12           | 19750             |        | 3200             | 6C-8               | 4.2   | 2.37  |               |                      |               |       | 300                    | 12        |
| 1000                                                  | T6    | Med 2-Pin (G9.5)   | 230 39738           | CP77        | FEP-Q1000T6/4CL          | 24           | 25000             |        | 3200             | CC-8               | 4.1   | 2.37  |               |                      |               |       | 300                    | 12        |
|                                                       | PAR64 | ExMogEndPr         | 240 10925           |             | EXC-Q1MPAR64CP60         | 6            |                   | 352000 | 3200             | C-7A               | 6     |       | 20            | 17                   | 12            | 9     | 300                    | 13        |
|                                                       |       |                    | 10929               |             | EXD-Q1MPAR64CP61         | 6            |                   | 297000 | 3200             | C-7A               | 6     |       | 22            | 20                   | 14            | 10    | 300                    | 13        |
|                                                       |       |                    | 10931               |             | EXE-Q1MPAR64CP62         | 6            |                   | 138000 | 3200             | C-7A               | 6     |       | 38            | 20                   | 24            | 11    | 300                    | 13        |
| 2000                                                  | T10   | R7S                | 230 35338           | P2/27       | FEX-Q2MT8/4CL            | 12           | 50000             |        | 3200             | CC-8               | 5.62  |       |               |                      |               |       | 300                    | 2, 12     |
| 12000                                                 | T26   | GX38               | 230 48771           |             | Q12MT26/4CL 230V         | 1            | 420000            |        | 3400             | C-13               | 16.14 | 10    |               |                      |               |       | 130                    | 4, 12     |
|                                                       |       |                    | 240 48779           |             | Q12MT26/4CL 240V         | 1            | 420000            |        | 3400             | C-13               | 16.14 | 10    |               |                      |               |       | 130                    | 4, 12     |
| 20000                                                 | T32   | GX38               | 208 48772           |             | BCM Q20MT32/4CL          | 1            | 580000            |        | 3200             | C-13               | 22.05 | 13.94 |               |                      |               |       | 400                    | 4, 12     |
|                                                       |       |                    | 220 48773           |             | BCM Q20MT32/4CL          | 1            | 580000            |        | 3200             | C-13               | 22.05 | 13.94 |               |                      |               |       | 400                    | 4, 12     |
|                                                       |       |                    | 240 48774           |             | BCM Q20MT32/4CL          | 1            | 580000            |        | 3200             | C-13               | 22.05 | 13.94 |               |                      |               |       | 400                    | 4, 12     |
| 24000                                                 | T32   | GX38               | 220 48776           |             | Q24MT32/4CL 220V         | 1            | 800000            |        | 3400             | C-13               | 22.05 | 13.94 |               |                      |               |       | 150                    | 4, 12     |
|                                                       |       |                    | 240 48777           |             | Q24MT32/4CL 240V         | 1            | 800000            |        | 3400             | C-13               | 22.05 | 13.94 |               |                      |               |       | 150                    | 4, 12     |
| CINEMA LAMPS                                          |       |                    |                     |             |                          |              |                   |        |                  |                    |       |       |               |                      |               |       |                        |           |
| FLUORESCENT LAMPS                                     |       |                    |                     |             |                          |              |                   |        |                  |                    |       |       |               |                      |               |       |                        |           |
| 15                                                    | T8    | Medium BiPin (G13) | 15722               |             | F15T8/CINEMA32           | 24           | 720               |        | 3200             |                    | 18    |       |               |                      |               |       | 8000                   |           |
|                                                       |       |                    | 15723               |             | F15T8/CINEMA55           | 24           | 700               |        | 5500             |                    | 18    |       |               |                      |               |       | 8000                   |           |
| 17                                                    | T8    | Medium BiPin (G13) | 15724               |             | F17T8/CINEMA32           | 24           | 800               |        | 3200             |                    | 24    |       |               |                      |               |       | 20000                  |           |
|                                                       |       |                    | 15725               |             | F17T8/CINEMA55           | 24           | 770               |        | 5500             |                    | 24    |       |               |                      |               |       | 20000                  |           |
| 20                                                    | T12   | Medium BiPin (G13) | 15558               |             | F20T12/CINEMA32          | 24           | 780               |        | 3200             |                    | 24    |       |               |                      |               |       | 10000                  |           |
|                                                       |       |                    | 15710               |             | F20T12/CINEMA55          | 24           | 760               |        | 5500             |                    | 24    |       |               |                      |               |       | 10000                  |           |
| 30                                                    | T12   | Medium BiPin (G13) | 15714               |             | F30T12/CINEMA32          | 24           | 1450              |        | 3200             |                    | 36    |       |               |                      |               |       | 18000                  |           |
|                                                       |       |                    | 15715               |             | F30T12/CINEMA55          | 24           | 1400              |        | 5500             |                    | 36    |       |               |                      |               |       | 18000                  |           |
| 32                                                    | T8    | Medium BiPin (G13) | 47868               |             | F32T8/CINEMA32           | 36           | 1800              |        | 3200             |                    | 48    |       |               |                      |               |       | 20000                  |           |
|                                                       |       |                    | 47869               |             | F32T8/CINEMA55           | 36           | 1750              |        | 5500             |                    | 48    |       |               |                      |               |       | 20000                  |           |
| 35                                                    | T12   | Medium BiPin (G13) | 15712               |             | F20T12/CINEMA32/HO       | 24           | 1130              |        | 3200             |                    | 24    |       |               |                      |               |       | 7500                   |           |
|                                                       |       |                    | 15713               |             | F20T12/CINEMA55/HO       | 24           | 1100              |        | 5500             |                    | 24    |       |               |                      |               |       | 7500                   |           |
| 40                                                    | T12   | Medium BiPin (G13) | 47857               |             | F40T12/CINEMA32          | 30           | 2000              |        | 3200             |                    | 48    |       |               |                      |               |       | 20000                  |           |
|                                                       |       |                    | 47864               |             | F40T12/CINEMA55          | 30           | 1950              |        | 5500             |                    | 48    |       |               |                      |               |       | 20000                  |           |
| 60                                                    | T12   | Medium BiPin (G13) | 15716               |             | F40T12/CINEMA32/HO       | 30           | 2900              |        | 3200             |                    | 48    |       |               |                      |               |       | 15000                  |           |
|                                                       |       |                    | 15717               |             | F40T12/CINEMA55/HO       | 30           | 2820              |        | 5500             |                    | 48    |       |               |                      |               |       | 15000                  |           |
| 85                                                    | T12   | Medium BiPin (G13) | 15718               |             | F72T12/CINEMA32/HO       | 15           | 4150              |        | 3200             |                    | 72    |       |               |                      |               |       | 15000                  |           |
|                                                       |       |                    | 15719               |             | F72T12/CINEMA55/HO       | 15           | 4050              |        | 5500             |                    | 72    |       |               |                      |               |       | 15000                  |           |
| 110                                                   | T12   | Medium BiPin (G13) | 15720               |             | F96T12/CINEMA32/HO       | 15           | 5800              |        | 3200             |                    | 96    |       |               |                      |               |       | 15000                  |           |
|                                                       |       |                    | 15721               |             | F96T12/CINEMA55/HO       | 15           | 5650              |        | 5500             |                    | 96    |       |               |                      |               |       | 15000                  |           |
| FLUORESCENT COVRGUARD® LAMPS                          |       |                    |                     |             |                          |              |                   |        |                  |                    |       |       |               |                      |               |       |                        |           |
| 15                                                    | T8    | Medium BiPin (G13) | 15800               |             | F15T8/CINEMA32/CVG       | 24           | 720               |        | 3200             |                    | 18    |       |               |                      |               |       | 8000                   |           |
|                                                       |       |                    | 15801               |             | F15T8/CINEMA55/CVG       | 24           | 700               |        | 5500             |                    | 18    |       |               |                      |               |       | 8000                   |           |
| 17                                                    | T8    | Medium BiPin (G13) | 15806               |             | F17T8/CINEMA32/CVG       | 24           | 800               |        | 3200             |                    | 24    |       |               |                      |               |       | 20000                  |           |
|                                                       |       |                    | 15810               |             | F17T8/CINEMA55/CVG       | 24           | 770               |        | 5500             |                    | 24    |       |               |                      |               |       | 20000                  |           |
| 20                                                    | T12   | Medium BiPin (G13) | 15766               |             | F20T12/CINEMA32/CVG      | 24           | 780               |        | 3200             |                    | 24    |       |               |                      |               |       | 10000                  |           |
|                                                       |       |                    | 15774               |             | F20T12/CINEMA55/CVG      | 24           | 760               |        | 5500             |                    | 24    |       |               |                      |               |       | 10000                  |           |
| 30                                                    | T12   | Medium BiPin (G13) | 15779               |             | F30T12/CINEMA32/CVG      | 24           | 1450              |        | 3200             |                    | 36    |       |               |                      |               |       | 18000                  |           |
|                                                       |       |                    | 15780               |             | F30T12/CINEMA55/CVG      | 24           | 1400              |        | 5500             |                    | 36    |       |               |                      |               |       | 18000                  |           |
| 32                                                    | T8    | Medium BiPin (G13) | 47881               |             | F32T8/CINEMA32/CVG       | 36           | 1800              |        | 3200             |                    | 48    |       |               |                      |               |       | 20000                  |           |
|                                                       |       |                    | 47882               |             | F32T8/CINEMA55/CVG       | 36           | 1750              |        | 5500             |                    | 48    |       |               |                      |               |       | 20000                  |           |
| 35                                                    | T12   | Medium BiPin (G13) | 15775               |             | F20T12/CINEMA32/HO/CVG24 | 1130         |                   |        | 3200             |                    | 24    |       |               |                      |               |       | 7500                   |           |
|                                                       |       |                    | 15776               |             | F20T12/CINEMA55/HO/CVG24 | 1100         |                   |        | 5500             |                    | 24    |       |               |                      |               |       | 7500                   |           |



## Stage and Studio Lamps

| Watts                                    | Shape | Base               | Order<br>Volts | LIF<br>Code              | Description | Case<br>Qty. | Lumens<br>Initial | CBCP | Color<br>Temp.<br>K | Filament<br>Design | MOL  | LCL | Beam Spread |     |     |       | Rated<br>Life<br>Hours | Footnotes |
|------------------------------------------|-------|--------------------|----------------|--------------------------|-------------|--------------|-------------------|------|---------------------|--------------------|------|-----|-------------|-----|-----|-------|------------------------|-----------|
|                                          |       |                    |                |                          |             |              |                   |      |                     |                    |      |     | 10%         | 50% | 10% | 50%   |                        |           |
| CINEMA LAMPS (CONTINUED)                 |       |                    |                |                          |             |              |                   |      |                     |                    |      |     |             |     |     |       |                        |           |
| FLUORESCENT COVRGUARD® LAMPS (CONTINUED) |       |                    |                |                          |             |              |                   |      |                     |                    |      |     |             |     |     |       |                        |           |
| 40                                       | T12   | Medium BiPin (G13) | 47876          | F40T12/CINEMA32/CVG      | 30          | 2000         |                   |      | 3200                |                    | 48   |     |             |     |     |       | 20000                  |           |
|                                          |       |                    | 47877          | F40T12/CINEMA55/CVG      | 30          | 1950         |                   |      | 5500                |                    | 48   |     |             |     |     | 20000 |                        |           |
| 60                                       | T12   | Medium BiPin (G13) | 15782          | F40T12/CINEMA32/HO/CVG30 | 2900        |              |                   | 3200 |                     | 48                 |      |     |             |     |     |       | 15000                  |           |
|                                          |       |                    | 15783          | F40T12/CINEMA55/HO/CVG30 | 2820        |              |                   | 5500 |                     | 48                 |      |     |             |     |     | 15000 |                        |           |
| 85                                       | T12   | Medium BiPin (G13) | 15785          | F72T12/CINEMA32/HO/CVG15 | 4150        |              |                   | 3200 |                     | 72                 |      |     |             |     |     |       | 15000                  |           |
|                                          |       |                    | 15786          | F72T12/CINEMA55/HO/CVG15 | 4050        |              |                   | 5500 |                     | 72                 |      |     |             |     |     | 15000 |                        |           |
| 110                                      | T12   | Medium BiPin (G13) | 15794          | F96T12/CINEMA32/HO/CVG15 | 5800        |              |                   | 3200 |                     | 96                 |      |     |             |     |     |       | 15000                  |           |
|                                          |       |                    | 15798          | F96T12/CINEMA55/HO/CVG15 | 5650        |              |                   | 5500 |                     | 96                 |      |     |             |     |     | 15000 |                        |           |
| FLUORESCENT BIAx®                        |       |                    |                |                          |             |              |                   |      |                     |                    |      |     |             |     |     |       |                        |           |
| 36                                       | T5    | 2G11-4 Pin         | 15816          | F36BX/CINEMA32           | 10          | 2900         |                   |      | 3200                |                    | 21.1 |     |             |     |     |       | 8000                   |           |
|                                          |       |                    | 15819          | F36BX/CINEMA56           | 10          | 2900         |                   |      | 5600                |                    | 21.1 |     |             |     |     | 8000  |                        |           |
| 55                                       | T5    | 2G11-4 Pin         | 15811          | F55BX/CINEMA32           | 10          | 4100         |                   |      | 3200                |                    | 21.1 |     |             |     |     |       | 8000                   |           |
|                                          |       |                    | 15814          | F55BX/CINEMA56           | 10          | 4100         |                   |      | 5600                |                    | 21.1 |     |             |     |     | 8000  |                        |           |
|                                          |       |                    | 22084          | F55BX/CINPLUS/32         | 10          | 2400         |                   |      | 3200                |                    | 21.1 |     |             |     |     | 8000  |                        |           |
|                                          |       |                    | 22085          | F55BX/CINPLUS/56         | 10          | 2400         |                   |      | 5600                |                    | 21.1 |     |             |     |     | 8000  |                        |           |

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| Bulb<br>Watts/OD                                                          | GE<br>Description  | Footnotes/<br>Safety<br>Notices | Product<br>Code | Std.<br>Pack<br>Qty. | Base             | Volts | Initial<br>Design<br>Lumens | Design<br>Color<br>Temp (K) | Color<br>CRI<br>Index | CIE<br>x | CIE<br>y | Arc Rated<br>LengthLife<br>(mm) | LCL<br>(hrs) | MOL<br>(mm) | Burn<br>(mm) | Position |
|---------------------------------------------------------------------------|--------------------|---------------------------------|-----------------|----------------------|------------------|-------|-----------------------------|-----------------------------|-----------------------|----------|----------|---------------------------------|--------------|-------------|--------------|----------|
| <b>CSR METAL HALIDE LAMPS</b>                                             |                    |                                 |                 |                      |                  |       |                             |                             |                       |          |          |                                 |              |             |              |          |
| <b>DISCHARGE-CSR/CSD (DAYLIGHT) METAL HALIDE, SINGLE-ENDED COLD START</b> |                    |                                 |                 |                      |                  |       |                             |                             |                       |          |          |                                 |              |             |              |          |
| 250 T7                                                                    | CSR250/2/SE        | 14, 63                          | 27817           | 10                   | GY9.5            | 90    | 18000                       | 8500                        | 65+                   | .289     | .305     | 5                               | 2000         |             |              | Any      |
| 575 T9                                                                    | CSR575/2/T/SE      | 14, 63                          | 49492           | 10                   | GX9.5            | 97    | 49000                       | 7200                        | 80+                   | .302     | .320     | 7                               | 1000         | 65          | 12           | Any      |
|                                                                           | CSR575/2/SE        | 14, 63                          | 15378           | 10                   | GX9.5            | 97    | 49000                       | 7200                        | 80+                   | .302     | .320     | 7                               | 1000         | 65          | 125          | Any      |
| 700 T9                                                                    | CSR700/2/SE        | 14, 63                          | 49491           | 10                   | G22              | 70    | 55000                       | 7200                        | 80+                   | .302     | .320     | 8                               | 1000         | 75          | 155          | Any      |
| 1200 T12                                                                  | CSR1200/2/SE       | 14, 63                          | 49490           | 6                    | G22/30X53        | 100   | 110000                      | 7200                        | 85+                   | .302     | .320     | 10                              | 800          | 85          | 175          | Any      |
| <b>DISCHARGE-CSR (DAYLIGHT) METAL HALIDE, SINGLE-ENDED SHORT ARC</b>      |                    |                                 |                 |                      |                  |       |                             |                             |                       |          |          |                                 |              |             |              |          |
| 700 G7                                                                    | CSR700/SA          | 14, 63                          | 15380           | 6                    | GY9.5            | 70    | 58000                       | 5600                        | 75+                   | .330     | .342     | 4                               | 500          | 39          | 85           | Any      |
| 1200 G9                                                                   | CSR1200/SA         | 14, 18, 63                      | 21849           | 6                    | GY22             | 100   | 100000                      | 5800                        | 80+                   | .326     | .330     | 7                               | 750          | 59          | 135          | Any      |
| 1800 G9                                                                   | CSR2000/SA         | 14, 18, 63                      | 21801           | 4                    | GY22             | 100   | 155000                      | 6000                        | 80+                   | .320     | .330     | 7                               | 750          | 59          | 135          | Any      |
| <b>DISCHARGE-CSR (DAYLIGHT) METAL HALIDE, SINGLE-ENDED HOT RESTRIKE</b>   |                    |                                 |                 |                      |                  |       |                             |                             |                       |          |          |                                 |              |             |              |          |
| 125 T5                                                                    | CSR125/SE/HR       | 14, 63                          | 48461           | 10                   | GZX9.5           | 80    | 9400                        | 5600                        | 90+                   | .323     | .328     | 4                               | 200          | 39          | 75           | Any      |
| 200 T6                                                                    | CSR200/SE/HR       | 14, 63                          | 48462           | 10                   | GZY9.5           | 70    | 15000                       | 5600                        | 90+                   | .323     | .328     | 5                               | 200          | 39          | 80           | Any      |
| 400 T6                                                                    | CSR400/SE/HR       | 14, 18, 63                      | 21853           | 10                   | GZZ9.5           | 70    | 32000                       | 6000                        | 90+                   | .323     | .328     | 6                               | 750          | 60          | 110          | Any      |
| 575 T9.5                                                                  | CSR575/SE/HR       | 14, 63                          | 48463           | 10                   | G22              | 95    | 48000                       | 6000                        | 90+                   | .323     | .328     | 7                               | 750          | 70          | 145          | Any      |
| 1200 T13                                                                  | CSR1200/SE/HR      | 14, 63                          | 48464           | 6                    | G38              | 100   | 110000                      | 6000                        | 90+                   | .323     | .328     | 11                              | 750          | 107         | 200          | Any      |
| 2500 T19.5                                                                | CSR2500/SE/HR      | 14, 63                          | 48465           | 6                    | G38              | 100   | 220000                      | 6000                        | 90+                   | .323     | .328     | 14                              | 500          | 127         | 240          | Any      |
| 4000 T24                                                                  | CSR4000/SE/HR      | 14, 63                          | 48466           | 6                    | G38              | 200   | 380000                      | 6000                        | 90+                   | .323     | .328     | 20                              | 500          | 142         | 260          | Any      |
| 6000 T26.5                                                                | CSR6000/SE/HR      | 14, 63                          | 48467           | 6                    | G38              | 130   | 540000                      | 6000                        | 90+                   | .323     | .328     | 24                              | 300          | 210         | 360          | Any      |
| 12000 T32                                                                 | CSR12000/SE/HR     | 14, 63                          | 48468           | 4                    | G38              | 160   | 1100000                     | 6000                        | 90+                   | .323     | .328     | 28                              | 250          | 255         | 450          | Any      |
| 18000 T32                                                                 | CSR18000/SE/HR     | 14, 63                          | 22496           | 1                    | G51              | 225   | 1650000                     | 6000                        | 90+                   | .323     | .328     | 35                              | 250          | 260         | 460          | Any      |
| <b>DISCHARGE-CSR (DAYLIGHT) METAL HALIDE, DOUBLE-ENDED HOT RESTRIKE</b>   |                    |                                 |                 |                      |                  |       |                             |                             |                       |          |          |                                 |              |             |              |          |
| 200 T4.5                                                                  | CSR200/DE          | 14, 63                          | 48450           | 10                   | X515             | 80    | 16000                       | 6000                        | 90+                   | .323     | .325     | 8                               | 300          |             | 75           | H15      |
| 400 T6.5                                                                  | CSR400/S/DE        | 14, 63                          | 22478           | 10                   | SFc 10-4 SI/M4   | 49    | 26000                       | 7500                        | 80+                   | .323     | .325     | 3                               | 750          |             | 135          | Any      |
| 575 T6.5                                                                  | CSR575/DE          | 14, 63                          | 48451           | 10                   | SFc 10-4 SI/M4   | 95    | 49000                       | 6000                        | 90+                   | .323     | .325     | 7                               | 750          |             | 145          | Any      |
| 700 T6.5                                                                  | CSR700/S/DE        | 14, 63                          | 22493           | 10                   | SFc 10-4 SI/M4   | 70    | 59000                       | 6000                        | 85+                   | .323     | .325     | 4                               | 750          |             | 135          | Any      |
| 1200 T6.5                                                                 | CSR1200/S/DE       | 14, 63                          | 22494           | 10                   | SFc 10-4 SI/M4   | 100   | 110000                      | 6000                        | 90+                   | .323     | .325     | 7                               | 500          |             | 145          | H15      |
|                                                                           | CSR1200/DE         | 14, 63                          | 48453           | 6                    | SFc 15.5-6 SI/M6 | 100   | 110000                      | 6000                        | 90+                   | .323     | .325     | 10                              | 750          |             | 220          | Any      |
| 2500 T9.5                                                                 | CSR2500/DE         | 14, 63                          | 48454           | 6                    | Sfa21-12         | 115   | 240000                      | 6000                        | 90+                   | .323     | .325     | 14                              | 500          |             | 355          | Any      |
| 4000 T12                                                                  | CSR4000/DE         | 14, 63                          | 48455           | 6                    | Sfa21-12         | 200   | 410000                      | 6000                        | 90+                   | .323     | .325     | 34                              | 500          |             | 405          | H15      |
| 6000 T16                                                                  | CSR6000/DE         | 14, 63                          | 48456           | 6                    | 25x51 Cyl 165mm  | 125   | 570000                      | 6000                        | 90+                   | .323     | .325     | 24                              | 300          |             | 450          | H15      |
| 12000 T22.5                                                               | CSR12000/DE        | 14, 63                          | 48457           | 4                    | 30x70 Cyl 165mm  | 160   | 1100000                     | 6000                        | 90+                   | .323     | .325     | 32                              | 300          |             | 470          | H15      |
| 18000 T28                                                                 | CSR18000/DE        | 14, 63                          | 48459           | 4                    | 30x70 Cyl 165mm  | 225   | 1650000                     | 6000                        | 90+                   | .323     | .325     | 45                              | 300          |             | 500          | H15      |
|                                                                           | CSR18000/S/DE      | 14, 63                          | 48460           | 4                    | 30x70 Cyl 165mm  | 225   | 1650000                     | 6000                        | 90+                   | .323     | .325     | 45                              | 300          |             | 470          | H15      |
| <b>CSR (DAYLIGHT) METAL HALIDE, SINGLE-ENDED HOT RESTRIKE UV-CONTROL</b>  |                    |                                 |                 |                      |                  |       |                             |                             |                       |          |          |                                 |              |             |              |          |
| 575 T9.5                                                                  | CSR575/SE/HR/UV-C  | 14, 63                          | 40460           | 10                   | G22              | 95    | 48000                       | 5800                        | 90+                   | .323     | .328     | 7                               | 750          | 70          | 145          | Any      |
| 800 T9.5                                                                  | CSR800/SE/HR/UV-C  | 14, 63                          | 22495           | 10                   | G22              | 95    | 64000                       | 5800                        | 90+                   | .325     | .327     | 7                               | 1000         | 70          | 145          | Any      |
| 1200 T13                                                                  | CSR1200/SE/HR/UV-C | 14, 63                          | 27764           | 6                    | G38              | 100   | 110000                      | 5800                        | 90+                   | .323     | .328     | 11                              | 750          | 107         | 200          | Any      |
| 2500 T19.5                                                                | CSR2500/SE/HR/UV-C | 14, 63                          | 40482           | 6                    | G38              | 100   | 220000                      | 5800                        | 90+                   | .323     | .328     | 14                              | 500          | 127         | 240          | Any      |
| 4000 T24                                                                  | CSR4000/SE/HR/UV-C | 14, 63                          | 27765           | 6                    | G38              | 200   | 380000                      | 5800                        | 90+                   | .323     | .328     | 20                              | 500          | 142         | 260          | Any      |
| 6000 T26.5                                                                | CSR6000/SE/HR/UV-C | 14, 63                          | 40492           | 6                    | G38              | 130   | 540000                      | 5800                        | 90+                   | .323     | .328     | 24                              | 300          | 210         | 360          | Any      |



## STAGE AND STUDIO ANSI CODES REFERENCE

| ANSI Code                            | Order Code | Lamp Description  | Volts |
|--------------------------------------|------------|-------------------|-------|
| <b>STAGE &amp; STUDIO ANSI CODES</b> |            |                   |       |
| BCM                                  | 48772      | BCM Q20MT32/4CL   | 208   |
| BCM                                  | 48773      | BCM Q20MT32/4CL   | 220   |
| BCM                                  | 48774      | BCM Q20MT32/4CL   | 240   |
| BTL                                  | 11966      | BTL-Q500T6/CL/P   | 120   |
| BTM                                  | 16465      | BTM-Q500T64CL/2P  | 120   |
| BTN                                  | 11953      | BTN-Q750T7/CL/2P  | 120   |
| BTP                                  | 11954      | BTP-Q750T7/4CL2P  | 120   |
| BTR                                  | 11955      | BTR-Q1000T74CL2P  | 120   |
| BVT                                  | 12554      | BVT-Q1MT7/CL/MP   | 120   |
| BVV                                  | 12553      | BVV-Q1MT7/4CL/MP  | 120   |
| BVV                                  | 12555      | BVV-Q2MT10/4CL/MP | 120   |
| BWA                                  | 39587      | BWA-Q2000/4CL/BP  | 120   |
| BWF                                  | 37086      | BWF-Q2000/4CL     | 120   |
| BWM                                  | 39680      | BWM-Q750T7/4CLTP  | 120   |
| BWN                                  | 39792      | BWN-Q1000T7/4CL   | 120   |
| CKZ                                  | 37564      | CKZ-Q1500T10/4CL  | 120   |
| CYV                                  | 42697      | CYV-Q1000T7/4CLBP | 120   |
| CYX                                  | 36636      | CYX-Q2000T10/4CL  | 120   |
| DKX                                  | 40357      | DKX/DSFQ1500PS52  | 120   |
| DKZ                                  | 39582      | DKZ/DSE-Q1000PS5  | 120   |
| DPY                                  | 41736      | DPY-Q5000T20/4CL  | 120   |
| DSE                                  | 34377      | DSE/Q1000         | 120   |
| DTA                                  | 30522      | DTA-Q1500T8/4CL   | 120   |
| DTY                                  | 18305      | DTY-Q10MT24/4CL   | 120   |
| DWE                                  | 41667      | DWE-Q650PAR36/1   | 120   |

| ANSI Code                            | Order Code | Lamp Description | Volts |
|--------------------------------------|------------|------------------|-------|
| <b>STAGE &amp; STUDIO ANSI CODES</b> |            |                  |       |
| DXW                                  | 30157      | DXW-Q1000T5/4CL  | 120   |
| EGC                                  | 39134      | EGC-Q500/5CL/P   | 120   |
| EGE                                  | 39135      | EGE-Q500CL/P     | 120   |
| EGF                                  | 39136      | EGF-Q750/4CL/P   | 120   |
| EGG                                  | 39137      | EGG-Q750CL/P     | 120   |
| EGJ                                  | 38853      | EGJ-Q1000/4CL/P  | 120   |
| EGK                                  | 38852      | EGK-Q1000/4/P    | 120   |
| EGM                                  | 39138      | EGM-Q1000CL/P    | 120   |
| EGN                                  | 30373      | EGN-Q500T8       | 120   |
| EGR                                  | 39190      | EGR-Q750T7/4CL   | 120   |
| EGT                                  | 39191      | EGT-Q1000T7/4CL  | 120   |
| EHC                                  | 39789      | EHC-Q500/5CL     | 120   |
| EHD                                  | 39768      | EHD-Q500CL/TP    | 120   |
| EHF                                  | 39771      | EHF-Q750/4CL     | 120   |
| EHG                                  | 39770      | EHG-Q750CL/TP    | 120   |
| EJD                                  | 23788      | EJD-Q1000T3/3CL  | 185   |
| EJG                                  | 20883      | EJG/HIR-Q525T2-1 | 120   |
| EJG                                  | 23756      | EJG-Q750T3/4CL   | 120   |
| EKB                                  | 33934      | EKB-Q420/4CL/2PP | 120   |
| EKD                                  | 34328      | EKD-Q650/3CL/2PP | 120   |
| EMD                                  | 23755      | EMD-Q750T3/4     | 120   |
| EVR                                  | 47950      | EVR-Q500CL/MC    | 120   |
| EXC                                  | 93409      | EXC-Q1MPAR64CP60 | 230   |
| EXC                                  | 10925      | EXC-Q1MPAR64CP60 | 240   |
| EXD                                  | 10928      | EXD-Q1MPAR64CP61 | 230   |

| ANSI Code                            | Order Code | Lamp Description | Volts |
|--------------------------------------|------------|------------------|-------|
| <b>STAGE &amp; STUDIO ANSI CODES</b> |            |                  |       |
| EXD                                  | 10929      | EXD-Q1MPAR64CP61 | 240   |
| EXE                                  | 10930      | EXE-Q1MPAR64CP62 | 230   |
| EXE                                  | 10931      | EXE-Q1MPAR64CP62 | 240   |
| FAD                                  | 30325      | FAD-Q650T4/4CL   | 120   |
| FAY                                  | 41668      | FAY-Q650PAR36/3D | 120   |
| FBE                                  | 41669      | FBE-Q650PAR36/5D | 120   |
| FBO                                  | 41671      | FBO-Q650PAR36/5  | 120   |
| FBX                                  | 30343      | FBX-Q650T4/4     | 120   |
| FBY                                  | 30374      | FBY-Q1000T5/4    | 120   |
| FCM                                  | 13895      | FCM/HIR-Q650T3/4 | 120   |
| FCM                                  | 23797      | FCM-Q1000T3/4CL  | 120   |
| FCV                                  | 35853      | FCV-Q1000/4      | 120   |
| FCW                                  | 41672      | FCW-Q650PAR36/6  | 120   |
| FCX                                  | 41673      | FCX-Q650PAR36/7  | 120   |
| FDB                                  | 23841      | FDB-Q1500T4/4CL  | 120   |
| FDF                                  | 20881      | FDF/HIR-Q350T2/4 | 120   |
| FDF                                  | 23735      | FDF-Q500T3/4CL   | 120   |
| FDN                                  | 23734      | FDN-Q500T3/4     | 120   |
| FEL                                  | 39769      | FEL-Q1000/4CL    | 120   |
| FEP                                  | 39738      | FEP-Q1000T6/4CL  | 230   |
| FER                                  | 33760      | FER-Q1000T6/4CL  | 120   |
| FEV                                  | 14119      | FEV-Q200/4CL/DC  | 120   |
| FEX                                  | 35338      | FEX-Q2MT8/4CL    | 230   |
| FEY                                  | 39790      | FEY-Q2000T8/4CL  | 120   |
| FFN                                  | 13233      | FFN-Q1000PAR64/1 | 120   |

| ANSI Code                            | Order Code | Lamp Description  | Volts |
|--------------------------------------|------------|-------------------|-------|
| <b>STAGE &amp; STUDIO ANSI CODES</b> |            |                   |       |
| FFP                                  | 13229      | FFP-Q1000PAR64/2  | 120   |
| FFR                                  | 13228      | FFR-Q1000PAR64/5  | 120   |
| FFS                                  | 13227      | FFS-Q1000PAR64/6  | 120   |
| FFT                                  | 20884      | FFT/HIR-Q675T3/4  | 120   |
| FFT                                  | 33280      | FFT-Q1000T3/1CL   | 120   |
| FGM                                  | 13226      | FGM-Q1000PAR64/3  | 120   |
| FGN                                  | 13225      | FGN-Q1000PAR64/7D | 120   |
| FGT                                  | 41229      | FGT-Q1500T4/4     | 120   |
| FHM                                  | 23792      | FHM-Q1000T3/4     | 120   |
| FKW                                  | 39781      | FKW-Q300T8        | 120   |
| FLK                                  | 39730      | FLK/LL-Q575T6     | 115   |
| FLK                                  | 11450      | FLK-Q575T6/4CL    | 115   |
| FMR                                  | 30475      | FMR-Q600T5        | 120   |
| FRG                                  | 39623      | FRG-Q500T8        | 120   |
| FRK                                  | 39637      | FRK-Q650T8        | 120   |
| GFA                                  | 34812      | GFA-Q1200PAR64/5  | 120   |
| GFB                                  | 34810      | GFB-Q1200PAR64/2  | 120   |
| GFC                                  | 34808      | GFC-Q1200PAR64/1  | 120   |
| GKV                                  | 39739      | GKV-Q575T6/4CL    | 230   |
| GLA                                  | 93428      | GLA-Q575T6/4CL    | 115   |
| GLC                                  | 93429      | GLC-Q575T6/5CL    | 115   |
| GLD                                  | 92771      | GLD-Q750T6/4CL    | 120   |
| GLE                                  | 92773      | GLE-Q750T6/4CL    | 120   |

| ANSI Code                            | Order Code | Lamp Description | Volts |
|--------------------------------------|------------|------------------|-------|
| <b>STAGE &amp; STUDIO ANSI CODES</b> |            |                  |       |
| (SEE SECTION - HALOGEN)              |            |                  |       |
| DVS                                  | 23733      | Q500T3/CL-DVS    | 130   |
| EHM                                  | 43703      | Q300T3/CL-EHM    | 120   |
| EHP                                  | 43705      | Q300T4/CL-EHP    | 120   |
| EHR                                  | 43708      | Q400T4/CL-EHR    | 120   |
| EHT                                  | 43699      | Q250CL/MC-EHT    | 120   |
| EHZ                                  | 43704      | Q300T3-EHZ       | 120   |
| ESL                                  | 44383      | Q150CL/MC/2V-ESL | 120   |
| ESM                                  | 43695      | Q250MC-ESM       | 120   |
| ESN                                  | 44385      | Q100CL/MC/2V-ESN | 120   |
| ESP                                  | 44384      | Q150CL/DC/2V-ESP | 120   |
| ESR                                  | 44386      | Q100CL/DC/2V-ESR | 120   |
| ESS                                  | 43697      | Q250CL/DC-ESS    | 120   |
| ETB                                  | 43701      | Q250DC-ETB       | 120   |
| ETC                                  | 43693      | Q150CL/DC-ETC    | 120   |
| ETD                                  | 44657      | Q100DC/2V-ETD    | 120   |
| ETE                                  | 44656      | Q100MC/2V-ETE    | 120   |
| ETF                                  | 44653      | Q150DC-ETF       | 120   |
| ETG                                  | 43694      | Q150CL/MC-ETG    | 120   |
| ETH                                  | 44654      | Q150MC-ETH       | 120   |
| FCL                                  | 23731      | Q500T3/CL-FCL    | 120   |



## FOOTNOTES

### # Footnote

- 1 Filament with low noise construction.
- 2 Burn position horizontal  $\pm 4$  degrees.
- 3 Burn position base down to horizontal.
- 4 Burning position vertical base down  $\pm 45$  degrees.
- 5 Burning position horizontal  $\pm 15$  degrees.
- 6 Enclosed fixture only per UL standard 1572. In accordance to Federal Regulations (21CFR 1040.30) the following notice applies.  
**WARNING:** This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if the outer envelope of the lamp is broken or punctured, and the arc tube continues to operate. Do not use where people will remain more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamp that will automatically extinguish when the outer envelope is broken or punctured are commercially available.
- 7 Frosted. Apparent lighted length slightly longer than similar clear lamp.
- 8 Life dependent on service conditions; for use only in equipment specially designed to maintain bulb and base temperatures within safe limits.
- 9 Available late 2003.
- 10 To avoid possible overheating, this lamp is not recommended for use without force-cooling in deep-bowled fixtures.
- 11 Burn vertical base down  $\pm 30$  degrees.

### 12

#### **Safety Notice for exposed unshielded lamps (if shielded fixture use footnote 13)**

##### **⚠ WARNING**

##### **Risk of electrical shock**

- Turn power off before inspection, installation or removal

##### **Risk of fire**

- Keep combustible materials away from lamp
- Use in enclosed fixture rated for this product

##### **Pressurized lamp-unexpected rupture may cause injury, fire, or property damage**

- Use eye protection when handling lamp
- Do not touch glass with bare hands
- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Operate lamp only in specified position
- Do not exceed 110% of rated voltage

##### **⚠ CAUTION**

##### **Risk of burn**

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

##### **Lamp may shatter and cause injury if broken**

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Wear safety glasses and gloves when handling lamp

##### **Lamp emits UV radiation which may cause eye/skin irritation. RG-2.**

- Limit unshielded exposure to less than 15 minutes per day

### 13

#### **Safety Notice for PAR lamps and enclosed, shielded lamps**

##### **⚠ WARNING**

##### **Risk of electrical shock**

- Turn power off before inspection, installation or removal

##### **Risk of fire**

- Keep combustible materials away from lamp
- Use in fixture rated for this product

##### **A damaged lamp emits UV radiation which may cause eye/skin injury**

- Turn power off if glass is broken. Remove and dispose of lamp

##### **Pressurized lamp-unexpected rupture may cause injury, fire, or property damage**

- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact

##### **⚠ CAUTION**

##### **Risk of burn**

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

##### **Lamp may shatter and cause injury if broken**

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container



**NOTES**

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#### GENERAL INFORMATION

|                                   |     |
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| Miniature Bases.....              | 7-3 |
| Sealed Beam Lamps and Bases.....  | 7-3 |
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#### LAMPS

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## Miniature & Sealed Beam Lamps

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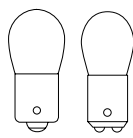
### LAMP LOCATOR

The lamps listed here are not to scale. To determine the diameter of a bulb in inches, multiply the bulb number by one-eighth.

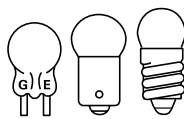
For example T-2 means approximately  $\frac{2}{8}$ " or  $\frac{1}{4}$ " diameter.



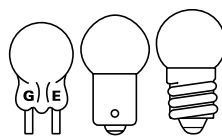
B-3½



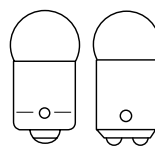
B-6



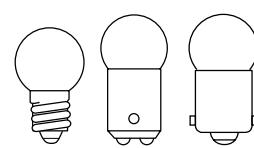
G-3½



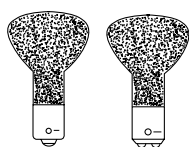
G-4½



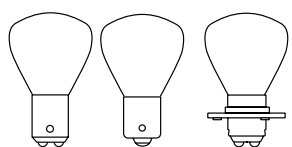
G-5



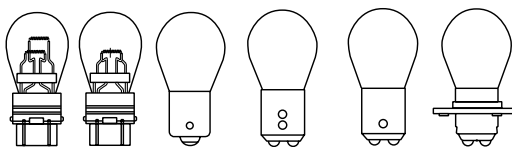
G-6



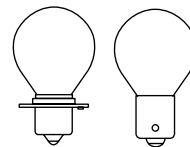
R-12



RP-11



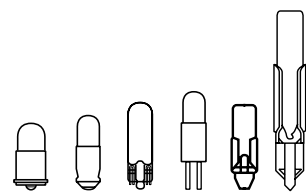
S-8



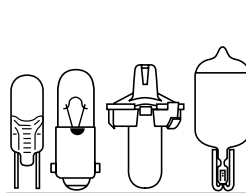
S-11



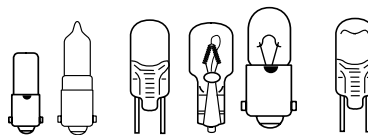
T-1



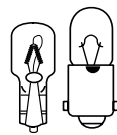
T-1¼



T-2



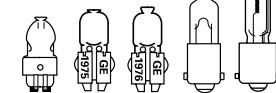
T-2½



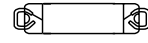
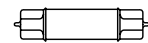
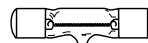
T-2¾



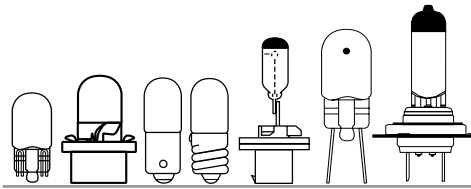
TL-2¾



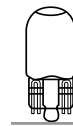
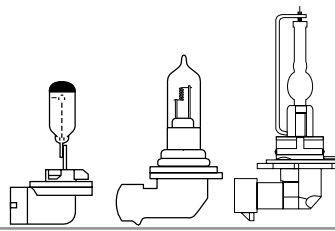
T-3



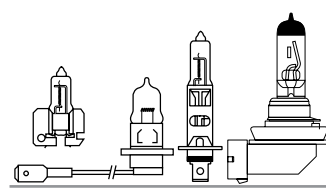
TL-3



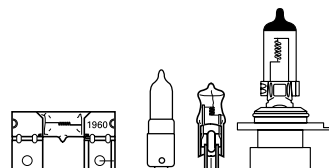
T-3½



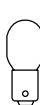
TL-3½



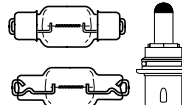
T-3¾



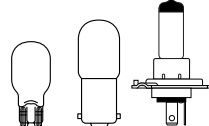
T-4



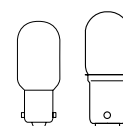
T-4½



T-4¾



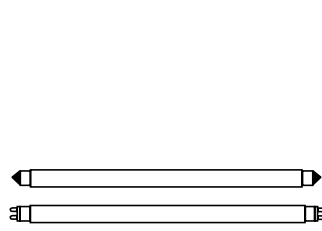
T-5



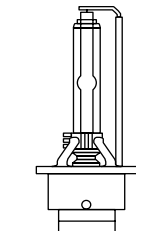
T-7



T-8



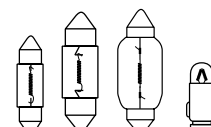
Electric Discharge



Central Discharge



Neon Glow



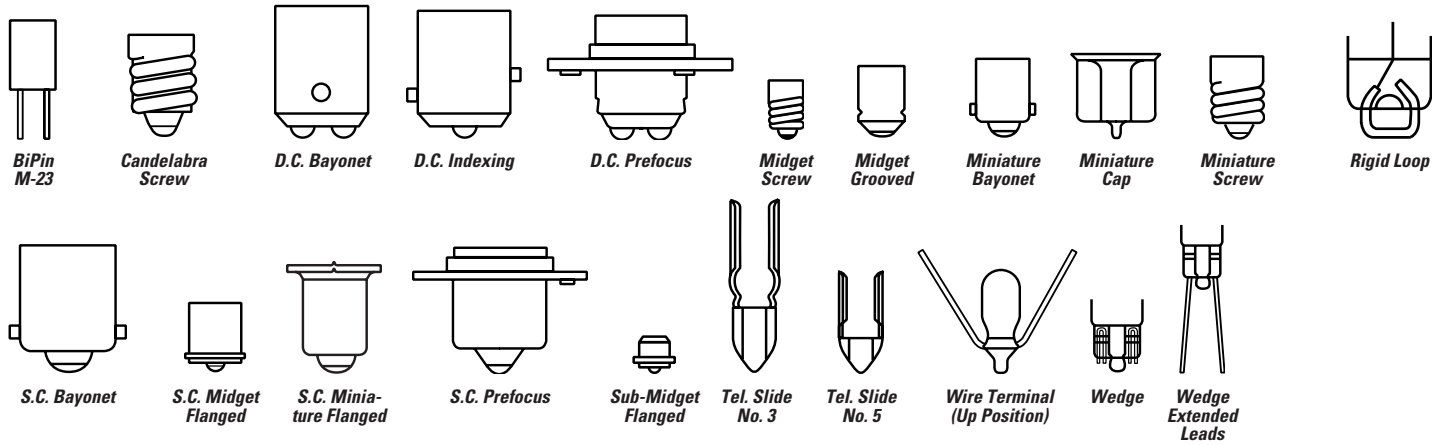
Festoon Type



## MINIATURE BASES

Bases provide electrical contact to the lamp and, in most cases, also support the lamp in the fixture. For miniature and subminiature lamps, bayonet or wedge base types are generally preferred over screw types when vibration

is present. In addition, wedge bases reduce socket size and complexity. Flanged or collared types are usually associated with requirements for filament location.

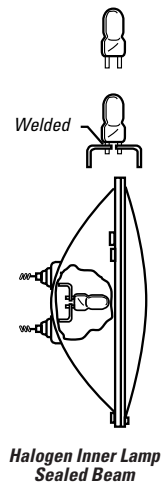
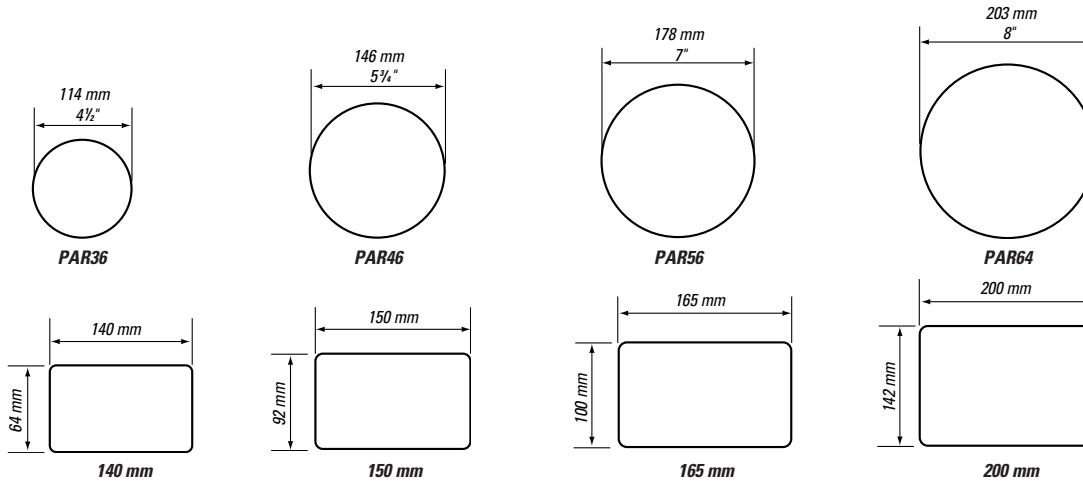


## S.C. AND D.C. PREFOCUSED BASE LAMPS

The letter "A" following the base type designates that the distance from the bottom of the collar to the bottom of the base contact is  $\frac{13}{32}$ ". For "B" bases this distance is  $\frac{9}{16}$ ". The few lamps identified by the letter "S" in the "Base"

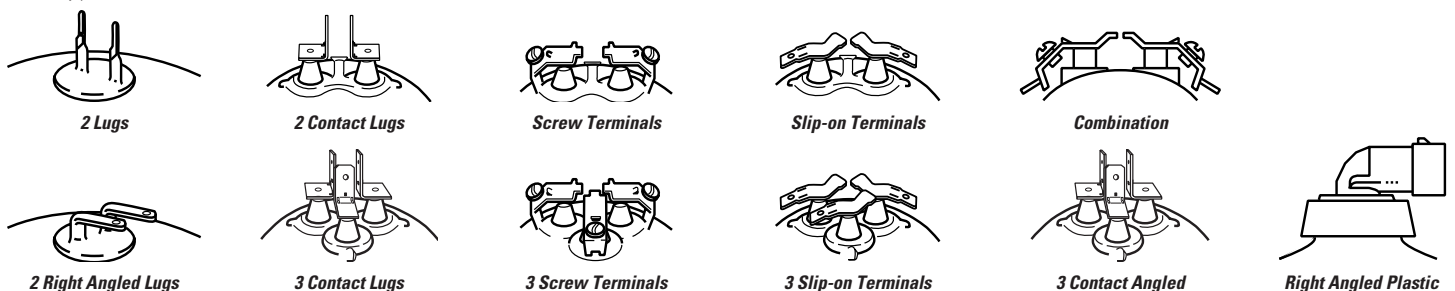
column are special in that the collar location and/or the orientation of the contacts differs from the above.

## SEALED BEAM LAMPS



## SEALED BEAM BASES

Bases provide electrical contact to the lamp. The most common bases for sealed beam lamps are the screw terminal and contact lug types. Other types are also available, as illustrated.





# Miniature & Sealed Beam Lamps

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## INTRODUCTION

### GE MINIATURE AND SEALED BEAM PRODUCT ORDERING INFORMATION

GE Miniature and Sealed Beam Lamps are designed for those applications requiring specific bulb size, base, and voltage. These lamps are operated on vehicles (cars, trucks, boats, aircraft, tractors) or in special applications utilizing low voltage sources. Most lamps are designated by common ANSI (American National Standards Institute) lamp numbers and lamps in this section are arranged in numerical order. To assist you in identifying lamps, drawings (not to scale) are provided, along with descriptions of bulb and base sizes.

Specific market segments covered in this section are products used in:

|             |                             |                     |
|-------------|-----------------------------|---------------------|
| Aircraft    | Emergency Building Lighting | Marine              |
| Automotive  | Flashlight/Hand Lanterns    | Medical/Instruments |
| Agriculture | Garden/Outdoor              | Telephone           |
| CIM/Tractor | Indicator                   | Toys/Entertainment  |

For additional specifications refer to **Miniature and Sealed Beam Catalog** obtained through your GE Sales Office. **Automotive Selection Guide** also available.

### FINDING AND ORDERING A LAMP

Most Miniature Lamps have a number on the base or bulb. Generally it will match the lamp number in this catalog, which is sorted in numeric order (prefixes last). The catalog is divided into Miniature and Sealed Beam sections. Sealed Beam lamps start on page 7-16. Often the first prefix is another lamp manufacturer's identification and can be ignored. You can verify the lamp using the drawings provided. Order codes for Blister, Unit, and Bulk Pack for OEM's are provided.

### FORMULAS

The following are commonly used formulas to assist any calculations you may need. For further information, contact your GE Lamp Representative.

- Watts = Volts x Amps
- Lumens = 12.57 x Mean Spherical Candlepower
- Kelvin = Celsius + 273
- Footcandles = Candlepower/Distance squared
- Hot Resistance (Ohms) = Volts/Amps (miniature lamps only)

### ABBREVIATIONS

The abbreviations used in this catalog include:

|                                                   |                                                   |
|---------------------------------------------------|---------------------------------------------------|
| <b>A</b> Amperes                                  | <b>C.I.M.</b> Construction & Industrial Machinery |
| <b>ANSI</b> American National Standards Institute | <b>C.P.</b> Candlepower                           |
| <b>Bay.</b> Bayonet                               | <b>Cand.</b> Candelabra                           |

|                                                                      |                                                                         |
|----------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>D.C.</b> Double Contact                                           | <b>PAR</b> Parabolic Aluminized Reflector                               |
| <b>ECE</b> European Common Market (European Motor Vehicle Standards) | <b>Pf.</b> Prefocus                                                     |
| <b>Fig.</b> Flanged                                                  | <b>SAE</b> Society of Automotive Engineers (US Motor Vehicle Standards) |
| <b>HID</b> High Intensity Discharge                                  | <b>Sc.</b> Screw                                                        |
| <b>HIR</b> Halogen Infrared                                          | <b>S.C.</b> Single Contact                                              |
| <b>LCL</b> Light Center Length                                       | <b>Spec.</b> Special                                                    |
| <b>Min.</b> Miniature                                                | <b>Tel.</b> Telephone                                                   |
| <b>MOL</b> Maximum Overall Length                                    | <b>Term.</b> Terminals                                                  |
| <b>MSCP</b> Mean Spherical Candlepower                               | <b>V</b> Volts                                                          |
| <b>Nom.</b> Nominal                                                  | <b>W</b> Watts                                                          |

### GE MINIATURE LAMP PREFIXES

|                                                   |                                       |
|---------------------------------------------------|---------------------------------------|
| <b>DE</b> Double-Ended                            | <b>Q</b> Quartz Halogen               |
| <b>H</b> Halogen                                  | <b>SE</b> Single-Ended                |
| <b>K</b> Krypton Gas                              | <b>W,T,R,C,P</b> European Designation |
| <b>PC</b> Printed Circuit Application             |                                       |
| <b>PR</b> Prefocus Base (E.G., "Flashlight Lamp") |                                       |

### GE MINIATURE LAMP SUFFIXES

|                                                                                            |                                                                                                                                    |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>A</b> Amber                                                                             | <b>NA</b> Natural Amber (automotive lighting)                                                                                      |
| <b>AF</b> All Frost (on outside)                                                           | <b>PSB</b> Pilot Indicator/Short Base                                                                                              |
| <b>AS10</b> Ages and Selected (for candlepower)                                            | <b>R</b> Red                                                                                                                       |
| <b>B</b> Blue                                                                              | <b>SB</b> Silver Bowl (all or some portion of bulb is silver)                                                                      |
| <b>C1</b> Refers to a range of current on telephone lamps (A1, B1, D1, E1, etc. used also) | <b>TY</b> Letters after a quartz halogen lamp mean a deviation from the standard lamp - usually refers to the electrical terminals |
| <b>CW</b> Cool White (aircraft lighting)                                                   | <b>U</b> Lead wires up or no base, e.g., unbased sealed beam lamp                                                                  |
| <b>D</b> Lead Wires Down                                                                   | <b>WW</b> Warm White (aircraft lighting)                                                                                           |
| <b>E</b> Extended Lead Wires                                                               | <b>X</b> Indicates some arbitrary deviation from the normal product                                                                |
| <b>E-1</b> Different lead wire material (NI plated)                                        | <b>Y</b> Yellow                                                                                                                    |
| <b>G</b> Green                                                                             | <b>-1</b> Slip on terminals                                                                                                        |
| <b>HD</b> Heavy Duty                                                                       | <b>-2</b> Represents various deviations                                                                                            |
| <b>HIR</b> Halogen Infrared                                                                | <b>-3</b> Represents deviations (e.g. combination terminal)                                                                        |
| <b>HO</b> High Output                                                                      | <b>W</b> European Designation (Watts)                                                                                              |
| <b>K</b> Unique Base                                                                       |                                                                                                                                    |
| <b>KR</b> Krypton Fill                                                                     |                                                                                                                                    |
| <b>L, XL, LL</b> Long Life                                                                 |                                                                                                                                    |
| <b>MB</b> Miniature Bayonet                                                                |                                                                                                                                    |

#### MSCP/MBCP

Approximate output expressed as initial mean spherical candlepower (see lumen conversion). For sealed beam MBCP is the maximum intensity of the beam in candelas, generally in the beam's center, and spread is beam size expressed in degrees.

#### Filament Design

C=coiled, CC=coiled coil, -6=horizontal, -8=vertical to base. See Miniature and Sealed Beam Catalog for all variations.

#### MOL:

In inches from the top of the bulb to the bottom of the base.

#### GE Lamp No.:

In nearly all cases lamps are marked with a General Electric Trade Number recorded with the ANSI. See glossary of prefixes and suffixes above.

|                                                                                                             |  |  |                                                                                               |  |                                                                                                                                  |  |                            |  |                                                                                                   |  |                                                                      |  |                                                    |  |                   |  |                |  |               |  |             |  |             |  |              |  |                        |  |
|-------------------------------------------------------------------------------------------------------------|--|--|-----------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|---------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------|--|----------------------------------------------------|--|-------------------|--|----------------|--|---------------|--|-------------|--|-------------|--|--------------|--|------------------------|--|
| <b>Order Code:</b><br>Use this code when ordering to ensure that you receive the exact product you require. |  |  | <b>Case Qty.</b><br>Quantity of lamps per case if blister pack (BP), unit, or bulk (QEM's). * |  | <b>Volts:</b><br>Voltage at which the lamp is designed to provide the amperes, candlepower, and laboratory life characteristics. |  |                            |  | <b>Base:</b><br>Base types are depicted on the previous pages for both Miniature and Sealed Beam. |  | Distance in inches between base reference plane and filament center. |  | Safety Footnotes<br>See page 7-21 for explanation. |  |                   |  |                |  |               |  |             |  |             |  |              |  |                        |  |
| <b>Order Code</b>                                                                                           |  |  | <b>Case Qty.</b>                                                                              |  | <b>GE</b>                                                                                                                        |  | <b>Amps or</b>             |  | <b>Filament</b>                                                                                   |  | <b>LCL</b>                                                           |  | <b>MOL</b>                                         |  | <b>Rated Life</b> |  | <b>Warning</b> |  |               |  |             |  |             |  |              |  |                        |  |
| <b>Blister Unit Bulk</b>                                                                                    |  |  | <b>BP/Unit/Bulk</b>                                                                           |  | <b>Lamp No.</b>                                                                                                                  |  | <b>Primary Application</b> |  | <b>Volts</b>                                                                                      |  | <b>Watts</b>                                                         |  | <b>MSCP</b>                                        |  | <b>Bulb</b>       |  | <b>Base</b>    |  | <b>Design</b> |  | <b>(in)</b> |  | <b>(in)</b> |  | <b>(hrs)</b> |  | <b>&amp; Footnotes</b> |  |

### MINIATURE LAMPS

40848 14132 /10/540 862 Tractor 12.8 2.93A 60 T-3<sup>1</sup>/<sub>4</sub> Rt Angle Prefocus C-6 1.25 2.68 1,900 306

T-2 is Tubular approximately 3/16" in diameter. Sealed Beam bulb sizes are also in eighths of an inch if round (PAR). PAR36 is 3/8" or 4 1/2" in diameter. If the Sealed Beam is rectangular in shape the longest side is measured in millimeters. A 165mm Sealed Beam measures 6 1/2" (165mm) across the top.

\* Miniature Incandescent BP is 2 lamps, Miniature Halogen BP is 1 lamp, selected miniature headlamps available in 2 pack BP; PC not shown.

Identifies the shape (S=Pear, T=Tubular, G=Globe, R=Reflector)

Identifies the approximate bulb diameter in eighths of an inch.

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## Miniature & Sealed Beam Lamps

| Order Code<br>Blister Unit | Case Qty.<br>Bulk | GE<br>BP/Unit/Bulk | Lamp No.   | Primary Application        | Volts             | Amps or<br>Watts | MSCP  | Bulb | Base              | Filament<br>Design | LCL<br>(in) | MOL<br>(in) | Rated Life<br>(hrs) | Warning<br>& Footnotes |     |
|----------------------------|-------------------|--------------------|------------|----------------------------|-------------------|------------------|-------|------|-------------------|--------------------|-------------|-------------|---------------------|------------------------|-----|
| MINIATURE LAMPS            |                   |                    |            |                            |                   |                  |       |      |                   |                    |             |             |                     |                        |     |
| 25312                      |                   | /50/               | 10         | Indicator                  | 2.50              | .50A             | .5    | G-3½ | Miniature Two Pin | C-6                | .62         | .94         | 3,000               | 69                     |     |
| 25319                      |                   | /50/               | 12         | Radio                      | 6.30              | .15A             | .35   | G-3½ | Miniature Two Pin | C-6                | .62         | .94         | 5,000               | 44, 69                 |     |
| 25331                      |                   | /50/               | 13         | Flashlight – 3D Cells      | 3.70              | .30A             | .98   | G-3½ | Miniature Screw   | C-2R               | .72         | .94         | 15                  | 116                    |     |
| 25354                      |                   | /50/               | 14         | Flashlight – 2D Cells      | 2.47              | .30A             | .5    | G-3½ | Miniature Screw   | C-2R               | .72         | .94         | 15                  | 116                    |     |
| 25371                      |                   | /50/               | 15         | Indicator                  | 7.0               | .40A             | 2     | G-4½ | Miniature Two Pin | C-6                | .69         | 1.07        | 500                 | 69                     |     |
| 25377                      | 25379             | /50/1000           | 19         | Toy Train                  | 14.4              | .10A             | .9    | G-3½ | Miniature Two Pin | C-6                | .62         | .94         | 1,000               | 69                     |     |
| 12325                      | 17853             | 48/50/             | 24         | Auto Side Marker           | 14.0              | .24A             | 2     | T-2¾ | Wedge             | C-2V               | .46         | .91         | 1,500               |                        |     |
| 12316                      |                   | 48/ /              | 24NA       | Auto Side Marker           | 14.0              | .24A             | 1.5   | T-2¾ | Wedge             | C-2V               | .46         | .91         | 1,500               |                        |     |
| 25388                      |                   | /50/               | 27         | Hand Lantern – 4F Cells    | 4.9               | .30A             | 1.4   | G-4½ | Miniature Screw   | C-2R               | .72         | 1.07        | 30                  | 116                    |     |
| 26480                      | 39220             | 13689              | 48/50/4000 | 37                         | Auto              | 14.0             | .09A  | .5   | T-1¾              | Wedge              | C-2F        | .40         | .80                 | 2,500                  |     |
| 25442                      |                   | /50/               | 43         | Indicator                  | 2.5               | .50A             | .5    | T-3¼ | Miniature Bayonet | C-2R               | .78         | 1.19        | 3,000               |                        |     |
| 25450                      |                   | /50/               | 44         | Indicator, Radio, and TV   | 6.3               | .25A             | .9    | T-3¼ | Miniature Bayonet | C-2R               | .78         | 1.19        | 3,000               |                        |     |
| 25485                      |                   | /50/               | 47         | Radio, TV, and Indicator   | 6.3               | .15A             | .52   | T-3¼ | Miniature Bayonet | C-2R               | .78         | 1.19        | 3,000               |                        |     |
| 25529                      |                   | /50/               | 51         | Indicator                  | 7.50              | .22A             | 1     | G-3½ | Miniature Bayonet | C-2R               | .50         | .94         | 1,000               |                        |     |
| 25550                      | 25552             | /50/4000           | 53         | Auto and Indicator         | 14.4              | .12A             | 1     | G-3½ | Miniature Bayonet | C-2V               | .50         | .94         | 1,000               |                        |     |
| 25576                      |                   | /50/               | 55         | Instrument                 | 7.0               | .41A             | 2     | G-4½ | Miniature Bayonet | C-2R               | .56         | 1.07        | 500                 |                        |     |
| 23218                      | 25591             | 48/50/             | 57         | Auto and Instrument        | 14.0              | .24A             | 2     | G-4½ | Miniature Bayonet | C-2V               | .56         | 1.07        | 500                 |                        |     |
| 12321                      |                   | 48/ /              | 63         | Coin Machine               | 7.0               | .63A             | 3     | G-6  | S.C. Bayonet      | C-2R               | .75         | 1.44        | 1,000               |                        |     |
| 25643                      |                   | /50/               | 64         | Aircraft and Marine        | 7.0               | .63A             | 3     | G-6  | D.C. Bayonet      | C-2R               | .75         | 1.44        | 1,000               |                        |     |
| 12324                      | 25652             | 25654              | 48/50/1000 | 67                         | Auto              | 13.5             | .59A  | 4    | G-6               | S.C. Bayonet       | C-2R        | .81         | 1.44                | 5,000                  | 4   |
| 25692                      |                   | /50/               | 68         | Auto and Marine            | 13.5              | .59A             | 4     | G-6  | D.C. Bayonet      | C-2R               | .81         | 1.44        | 5,000               | 4                      |     |
| 43606                      | 43607             | /50/4000           | 70         | Auto                       | 14.0              | .15A             | 1.5   | T-1¾ | Wedge             | C-2F               | .40         | .80         | 100                 | 14                     |     |
| 23015                      | 39218             | 39219              | 48/50/4000 | 73                         | Indicator         | 14.0             | .08A  | .3   | T-1¾              | Wedge              | C-2F        | .40         | .80                 | 15,000                 | 79  |
| 21029                      | 38457             | 38458              | 48/50/4000 | 74                         | Auto              | 14.0             | .10A  | .7   | T-1¾              | Wedge              | C-2F        | .40         | .80                 | 1,000                  |     |
| 25736                      |                   | /50/               | 81         | Auto, Aircraft             | 6.5               | 1.02A            | 6     | G-6  | S.C. Bayonet      | C-2R               | .75         | 1.44        | 500                 |                        |     |
| 25751                      |                   | /50/               | 82         | Auto and Marine            | 6.5               | 1.02A            | 6     | G-6  | D.C. Bayonet      | C-2R               | .75         | 1.44        | 500                 |                        |     |
| 40969                      |                   | /50/               | 85         | Indicator                  | 28.0              | .04A             | .3    | T-1¾ | Wedge             | C-2F               | .40         | .80         | 7,000               | 79                     |     |
| 40967                      | 40968             | /50/4000           | 86         | Indicator                  | 6.3               | .20A             | .4    | T-1¾ | Wedge             | C-2F               | .40         | .80         | 20,000              | 79, 130                |     |
| 25772                      |                   | /10/               | 88         | Indicator                  | 6.8               | 1.91A            | 15    | S-8  | D.C. Bayonet      | C-6                | 1.12        | 2.0         | 300                 |                        |     |
| 12363                      | 25778             | 18618              | 48/50/1000 | 89                         | Auto              | 13.0             | .58A  | 6    | G-6               | S.C. Bayonet       | C-2R        | .75         | 1.44                | 750                    |     |
| 47797                      |                   | 48/ /              | 89KR       | Auto. Krypton. Long Life   | 13.0              | .58A             | 6     | G-6  | S.C. Bayonet      | C-2R               | .75         | 1.44        | 1,500               |                        |     |
| 12364                      | 25794             | 25796              | 48/50/1000 | 90                         | Auto and Marine   | 13.0             | .58A  | 6    | G-6               | D.C. Bayonet       | C-2R        | .75         | 1.44                | 750                    |     |
| 23217                      | 25811             | 25813              | 48/50/500  | 93                         | Auto              | 12.8             | 1.04A | 15   | S-8               | S.C. Bayonet       | C-6         | 1.12        | 2.0                 | 700                    |     |
| 25829                      | 25831             | /50/500            | 94         | Auto and Marine            | 12.8              | 1.04A            | 15    | S-8  | D.C. Bayonet      | C-6                | 1.12        | 2.0         | 700                 |                        |     |
| 12322                      | 25836             | 25838              | 48/50/1000 | 97                         | Auto – Heavy Duty | 13.5             | .69A  | 4    | G-6               | S.C. Bayonet       | C-2V        | .81         | 1.44                | 5,000                  | 4   |
| 16287                      | 16286             | /50/1000           | 98         | Auto, Heavy Duty           | 13.0              | .62A             | 6     | G-6  | S.C. Bayonet      | C-2V               | .75         | 1.44        | 800                 |                        |     |
| 36147                      |                   | /50/               | 105        | Auto Interior – Heavy Duty | 12.8              | 1.00A            | 12    | B-6  | S.C. Bayonet      | C-6                | 1.06        | 1.75        | 500                 |                        |     |
| 25848                      |                   | /50/               | 112        | Flashlight – 1AA, C or D   | 1.2               | .22A             | –     | TL-3 | Miniature Screw   | S-2                | –           | .93         | 5                   | 116                    |     |
| 25916                      |                   | /50/               | 147        | Indicator                  | 7.0               | .43A             | 2     | T-3¼ | Wedge             | C-2R               | .56         | 1.06        | 1,500               |                        |     |
|                            | 15731             | / /1000            | 149        | Emergency Lighting         | 6.15              | .53A             | 3.5   | T-3¼ | Wedge             | C-2R               | .56         | 1.06        | 15                  |                        |     |
|                            | 25927             | /50/               | 157        | Medical                    | 5.8               | 1.10A            | 8.1   | G-6  | Miniature Screw   | C-2R               | 1.0         | 1.22        | 50                  | 127                    |     |
|                            | 25931             | 25933              | /50/4000   | 158                        | Auto, Instrument  | 14.0             | .24A  | 2    | T-3¼              | Wedge              | C-2V        | .56         | 1.06                | 500                    |     |
| 23016                      | 25956             | 16489              | 48/50/4000 | 161                        | Auto, Instrument  | 14.0             | .19A  | 1    | T-3¼              | Wedge              | C-2F        | .56         | 1.06                | 4,000                  |     |
| 12327                      | 25962             | 16302              | 48/50/4000 | 168                        | Auto Instrument   | 14.0             | .35A  | 3    | T-3¼              | Wedge              | C-2F        | .56         | 1.06                | 1,500                  |     |
| 47827                      |                   | 48/ /              | 168XL      | Auto-Long Life             | 14.0              | .35A             | 3     | T-3¼ | Wedge             | C-2F               | .56         | 1.06        | 3,000               |                        |     |
|                            | 19553             | 19852              | /50/4000   | 193                        | Heavy Duty Truck  | 14.0             | .33A  | 2    | T-3¼              | Wedge              | C-2F        | .56         | 1.06                | 15,000                 |     |
|                            |                   | 19921              | / /4000    | 193E                       | Heavy Duty Truck  | 14.0             | .33A  | 2    | T-3¼              | Wire Terminal      | C-2F        | .56         | 1.06                | 15,000                 | 122 |
|                            |                   | 11807              | / /4000    | 193E-1                     | Truck Clearance   | 14.0             | .33A  | 2    | T-3¼              | Wire Terminal      | C-2F        | –           | 1.06                | 15,000                 | 122 |
| 12328                      | 25965             | 16303              | 48/50/4000 | 194                        | Auto, Instrument  | 14.0             | .27A  | 2    | T-3¼              | Wedge              | C-2F        | .56         | 1.06                | 2,500                  |     |
| 12356                      |                   | 48/ /              | 194B       | Auto courtesy – Blue       | 14.0              | .27A             | 2     | T-3¼ | Wedge             | C-2F               | –           | 1.06        | 2,500               | 132                    |     |
| 12357                      |                   | 48/ /              | 194G       | Auto courtesy – Green      | 14.0              | .27A             | 2     | T-3¼ | Wedge             | C-2F               | –           | 1.06        | 2,500               | 132                    |     |



# Miniature & Sealed Beam Lamps

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| Blister                            | Order Code Unit | Case Qty. Bulk | GE BP/Unit/Bulk | Lamp No. | Primary Application      | Volts        | Amps or Watts | MSCP    | Bulb    | Base                | Filament Design | LCL (in) | MOL (in) | Rated Life (hrs) | Warning & Footnotes |
|------------------------------------|-----------------|----------------|-----------------|----------|--------------------------|--------------|---------------|---------|---------|---------------------|-----------------|----------|----------|------------------|---------------------|
| <b>MINIATURE LAMPS (CONTINUED)</b> |                 |                |                 |          |                          |              |               |         |         |                     |                 |          |          |                  |                     |
| 12319                              | 44859           | 27470          | 48/50/4000      | 194NA    | Auto Sidemarker. Amber   | 14.0         | .27A          | 1.5     | T-3/4   | Wedge               | C-2F            | —        | 1.06     | 2,500            |                     |
| 47794                              |                 |                | 48/ /           | 194NAXL  | Auto Sidemarker. Amber   | 14.0         | .27A          | 1.5     | T-3/4   | Wedge               | C-2F            | —        | 1.06     | 5,000            |                     |
| 12355                              |                 |                | 48/ /           | 194R     | Auto courtesy – Red      | 14.0         | .27A          | 2       | T-3/4   | Wedge               | C-2F            | —        | 1.06     | 2,500            | 132                 |
| 25832                              |                 |                | 48/ /           | 194XL    | Auto, Long Life          | 14.0         | .27A          | 2       | T-3/4   | Wedge               | C-2F            | .56      | 1.06     | 12,000           |                     |
|                                    | 37983           | 37984          | /50/500         | 198      | Truck Stop, Signal       | 12.8<br>14.0 | 2.25A<br>.59A | 32<br>3 | S-8     | D.C. Index          | C-6             | 1.25     | 2.0      | 1,200<br>5,000   | 110, 147            |
|                                    | 37985           | 37986          | /50/500         | 199      | Truck Signal             | 12.8         | 2.25A         | 32      | S-8     | S.C. Bayonet        | C-6             | 1.25     | 2.0      | 1,200            | 110                 |
|                                    | 25988           |                | /50/            | 210      | Instrument               | 6.5          | 1.78A         | 15      | B-6     | D.C. Bayonet        | C-6             | 1.06     | 1.75     | 100              |                     |
| 12673                              | 39224           | 39225          | 48/50/1000      | 211-2    | Auto                     | 12.8         | .97A          | 12      | T-3     | Miniature Cap       | C-8             | —        | 1.72     | 1,000            |                     |
| 23220                              |                 | 39223          | 48/ /1000       | 212-2    | Auto                     | 13.5         | .74A          | 6       | T-3     | Miniature Cap       | C-8             | —        | 1.72     | 2,000            | 4                   |
|                                    | 39356           | 39357          | /50/1000        | 214-2    | Auto                     | 13.5         | .52A          | 4       | T-3     | Miniature Cap       | C-8             | —        | 1.72     | 1,000            | 4                   |
|                                    | 26008           |                | /50/            | 222      | Flashlight – AA cells    | 2.25         | .25A          | —       | TL-3    | Miniature Screw     | C-2R            | —        | .93      | 5                | 116                 |
|                                    | 26063           |                | /50/            | 243      | Flashlight – 2 C cells   | 2.33         | .27A          | —       | TL-3    | Miniature Screw     | C-2R            | —        | .93      | 10               | 116                 |
|                                    | 26095           |                | /50/            | 258      | Toy Train, Flasher Lamp  | 14.0         | .27A          | 1.6     | G-4 1/2 | Miniature Screw     | C-2R            | .81      | 1.07     | 500              | 3, 70               |
|                                    | 26099           |                | /50/            | 259      | Radio, TV, and Indicator | 6.3          | .25A          | .65     | T-3/4   | Wedge               | C-2R            | .65      | 1.06     | 5,000            | 44, 147             |
|                                    | 44719           |                | /50/            | 265      | Indicator                | 28.0         | .08A          | .75     | G-3 1/2 | Miniature Bayonet   | C-2F            | .50      | .94      | 5,000            |                     |
|                                    | 42758           |                | /50/            | 267      | Indicator – Flasher Lamp | 6.3          | .15A          | .33     | T-3/4   | Miniature Bayonet   | C-2R            | .62      | 1.19     | 5,000            | 3, 70               |
|                                    | 32688           |                | /50/            | 293      | Auto and Radio           | 14.0         | .33A          | 2       | G-4 1/2 | Miniature Bayonet   | C-2F            | .56      | 1.07     | 7,500            |                     |
|                                    | 81642           |                | /50/            | 301      | Aircraft                 | 28.0         | .17A          | 3       | G-5     | S.C. Bayonet        | C-2F            | .69      | 1.25     | 500              |                     |
|                                    | 26120           |                | /50/            | 302      | Aircraft                 | 28.0         | .17A          | 3       | G-5     | D.C. Bayonet        | C-2F            | .69      | 1.25     | 500              |                     |
|                                    | 81641           |                | /50/            | 303      | Aircraft                 | 28.0         | .30A          | 6       | G-6     | S.C. Bayonet        | C-2F            | .75      | 1.44     | 500              |                     |
|                                    | 81643           |                | /50/            | 304      | Aircraft                 | 28.0         | .30A          | 6       | G-6     | D.C. Bayonet        | C-2F            | .75      | 1.44     | 500              |                     |
|                                    | 26143           |                | /50/            | 305      | Aircraft                 | 28.0         | .51A          | 15      | S-8     | S.C. Bayonet        | C-2V            | 1.12     | 2.0      | 300              |                     |
|                                    | 26145           |                | /50/            | 305AF    | Aircraft – All frosted   | 28.0         | .51A          | —       | S-8     | S.C. Bayonet        | C-2V            | —        | 2.0      | 300              |                     |
|                                    | 26152           |                | /50/            | 306      | Aircraft                 | 28.0         | .51A          | 15      | S-8     | D.C. Bayonet        | C-2V            | 1.12     | 2.0      | 300              |                     |
|                                    | 81644           |                | /50/            | 307      | Aircraft                 | 28.0         | .67A          | 21      | S-8     | S.C. Bayonet        | C-2V            | 1.12     | 2.0      | 300              |                     |
|                                    | 26161           |                | /50/            | 307AF    | Aircraft – All frosted   | 28.0         | .67A          | 21      | S-8     | S.C. Bayonet        | C-2V            | —        | 2.0      | 300              |                     |
|                                    | 81645           |                | /50/            | 308      | Aircraft                 | 28.0         | .67A          | 21      | S-8     | D.C. Bayonet        | C-2V            | 1.12     | 2.0      | 300              |                     |
|                                    | 81646           |                | /50/            | 308AF    | Aircraft – All frosted   | 28.0         | .67A          | —       | S-8     | D.C. Bayonet        | C-2V            | —        | 2.0      | 300              |                     |
|                                    | 26175           |                | /10/            | 309      | Aircraft                 | 28.0         | .90A          | 32      | S-11    | S.C. Bayonet        | C-2V            | 1.25     | 2.38     | 300              |                     |
|                                    | 81647           |                | /10/            | 311      | Aircraft                 | 28.0         | 1.29A         | 50      | S-11    | S.C. Bayonet        | C-2V            | 1.25     | 2.38     | 300              |                     |
|                                    | 81649           | 81650          | /50/4000        | 313      | Aircraft                 | 28.0         | .17A          | 3.5     | T-3/4   | Miniature Bayonet   | C-2F            | .62      | 1.19     | 500              |                     |
|                                    | 81651           |                | /50/            | 315      | Aircraft                 | 28.0         | .90A          | 32      | S-8     | S.C. Bayonet        | C-2V            | 1.12     | 2.0      | 300              |                     |
|                                    | 81652           |                | /50/            | 316      | Aircraft                 | 6.0          | .70A          | 3.4     | T-3/4   | Miniature Bayonet   | C-2R            | .62      | 1.19     | 500              |                     |
|                                    | 80862           |                | /10/            | 317      | Aircraft                 | 12.0         | 3.5W          | 2.63    | T-3     | G4 2-Pin            | C-2R            | .78      | 1.16     | 1000             |                     |
|                                    | 28519           |                | /50/            | 327      | Aircraft                 | 28.0         | .04A          | .34     | T-1 1/4 | S.C. Midget Flanged | C-2F            | .38      | .63      | 4,000            | 79                  |
|                                    | 28546           |                | /50/            | 328      | Aircraft                 | 6.0          | .20A          | .34     | T-1 1/4 | S.C. Midget Flanged | C-2R            | .38      | .63      | 1,000            | 10                  |
|                                    | 28567           |                | /50/            | 330      | Aircraft                 | 14.0         | .08A          | .5      | T-1 1/4 | S.C. Midget Flanged | C-2F            | .38      | .63      | 1,500            |                     |
|                                    | 28588           |                | /50/            | 334      | Aircraft                 | 28.0         | .04A          | .34     | T-1 1/4 | Midget Grooved      | C-2F            | .38      | .63      | 4,000            | 79                  |
|                                    | 29917           |                | / /1000         | 338      | Aircraft                 | 2.7          | .06A          | .04     | T-1 1/4 | Midget Flanged      | C-2R            |          | .63      | 6,000            |                     |
|                                    | 29918           |                | / /1000         | 345      | Aircraft                 | 6            | .04A          | .055    | T-1 1/4 | Midget Flanged      | C-2R            |          | .63      | 10,000           |                     |
|                                    | 26255           |                | /50/            | 356      | Aircraft                 | 28.0         | .17A          | 3.5     | G-3 1/2 | Miniature Bayonet   | C-2F            | .50      | .94      | 500              | 14                  |
|                                    | 87381           |                | / /1000         | 380      | Aircraft                 | 6.3          | .04A          | .03     | T-1 1/4 | Midget Flanged      | C-2V            |          | .64      | 50,000           |                     |
|                                    | 28653           |                | /50/            | 381      | Indicator                | 6.3          | .20A          | .4      | T-1 1/4 | S.C. Midget Flanged | C-2F            | .38      | .63      | 20,000           | 79                  |
|                                    | 28657           |                | /50/            | 382      | Indicator                | 14.0         | .08A          | .3      | T-1 1/4 | S.C. Midget Flanged | C-2F            | .38      | .63      | 40,000           | 79                  |
|                                    | 28660           |                | /50/            | 385      | Indicator                | 28.0         | .04A          | .15     | T-1 1/4 | S.C. Midget Flanged | C-2F            | .44      | .81      | 10,000           | 78,79               |
|                                    | 87306           |                | / /1000         | 385AS15  | Aircraft                 | 28.0         | .04A          | .2      | T-1 1/4 | Midget Flanged      | C-2F            |          | .36      | 25,000           |                     |
|                                    | 28662           |                | /50/            | 386      | Indicator                | 14.0         | .08A          | .3      | T-1 1/4 | Midget Grooved      | C-2F            | .38      | .63      | 40,000           | 79                  |
|                                    | 28664           | 25090          | /50/1000        | 387      | Indicator                | 28.0         | .04A          | .3      | T-1 1/4 | Midget Flanged      | C-2F            |          | .63      | 7,000            |                     |
|                                    | 28672           |                | /50/            | 388      | Indicator                | 28.0         | .04A          | .3      | T-1 1/4 | Midget Grooved      | C-2F            | .38      | .63      | 7,000            | 79                  |
|                                    | 87398           |                | / /1000         | 394      | Aircraft                 | 12           | .04A          | .12     | T-1 1/4 | Midget Flanged      | C-2F            |          | .64      | 10,000           |                     |
|                                    | 38918           |                | /50/            | 400      | Aircraft                 | 28.0         | .10A          | 1.6     | T-3/4   | Wedge               | C-2F            | .56      | 1.06     | 1,000            |                     |

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| Blister                     | Order Code<br>Unit | Case Qty.<br>Bulk | BP/Unit/Bulk | GE<br>Lamp No. | Primary Application     | Volts | Amps or<br>Watts | MSCP | Bulb  | Base               | Filament<br>Design | LCL<br>(in) | MOL<br>(in) | Rated Life<br>(hrs) | Warning<br>& Footnotes |
|-----------------------------|--------------------|-------------------|--------------|----------------|-------------------------|-------|------------------|------|-------|--------------------|--------------------|-------------|-------------|---------------------|------------------------|
| MINIATURE LAMPS (CONTINUED) |                    |                   |              |                |                         |       |                  |      |       |                    |                    |             |             |                     |                        |
|                             | 26354              |                   | /50/         | 425            | Hand Lantern – 4F Cells | 5.0   | .50A             | 2.3  | G-4½  | Miniature Screw    | C-2R               | .72         | 1.07        | 15                  | 116                    |
|                             | 26441              |                   | /50/         | 456            | Instrument              | 28.0  | .17A             | 2    | G-4½  | Miniature Bayonet  | C-2F               | .56         | 1.07        | 5,000               |                        |
|                             | 39645              |                   | /50/         | 464            | Aircraft                | 28.0  | .17A             | 3    | T-3¼  | Wedge              | C-2F               | .56         | 1.06        | 1,500               |                        |
|                             | 26460              |                   | /50/         | 502            | Hand Lantern – 4F Cells | 5.1   | .15A             | .6   | G-4½  | Miniature Screw    | C-2R               | .72         | 1.07        | 100                 | 116                    |
|                             | 26485              |                   | /50/         | 509K           | Indicator               | 24.0  | .18A             | 2.8  | G-6   | Candelabra Screw   | C-2R               | .75         | 1.47        | 1,000               | 303                    |
|                             | 44773              | 44774             | /50/4000     | 555            | Coin, Novelty           | 6.3   | .25A             | .9   | T-3¼  | Wedge              | C-2R               | .65         | 1.06        | 3,000               |                        |
|                             | 38269              |                   | /50/         | 558            | Auto Lens end           | 13.0  | .33A             | –    | TL-3¼ | Wedge              | C-2V               | –           | 1.06        | 500                 | 68                     |
| 12358                       | 39746              | 40023             | 48/50/1000   | 561            | Auto                    | 12.8  | .97A             | 12   | T-3   | Rigid Loop         | C-8                | –           | 1.72        | 1,000               |                        |
| 23019                       |                    | 40024             | 48/1000      | 562            | Auto                    | 13.5  | .74A             | 6    | T-3   | Rigid Loop         | C-8                | –           | 1.72        | 2,000               | 4                      |
| 26205                       |                    |                   | 48/ /        | 563            | Auto                    | 13.5  | .52A             | 4    | T-3   | Rigid Loop         | C-8                | –           | 1.72        | 1,000               | 4                      |
| 12672                       |                    |                   | 48/ /        | 570            | Truck Bed Light         | 12.8  | 2.10A            | 32   | T-4¾  | Rigid Loop         | C-8                | –           | 1.72        | 600                 |                        |
| 23020                       |                    |                   | 48/ /        | 577            | Auto                    | 12.8  | 1.40A            | 21   | T-4¾  | Double End Cap     | C-8                | –           | 1.72        | 1,000               |                        |
|                             | 18442              | 18439             | /50/4000     | 590            | Strip Lighting (Xenon)  | 13.5  | .37A             | 4    | T-3¼  | Wedge              | C-2V               | .5          | 1.06        | 2,000               |                        |
|                             | 25199              | 25200             | /50/4000     | 591            | Strip Lighting (Xenon)  | 14.0  | .24A             | 2    | T-3¼  | Wedge              | C-2V               | .5          | 1.06        | 3,000               |                        |
|                             | 26549              |                   | /50/         | 605            | Flashlight – 5D Cells   | 6.15  | .50A             | 3.4  | G-4½  | Miniature Screw    | C-2R               | .72         | 1.07        | 15                  | 116                    |
|                             | 81653              | 81654             | /50/1000     | 623            | Instrument              | 28.0  | .37A             | 6    | G-6   | S.C. Bayonet       | 2C-2V              | .75         | 1.44        | 1,000               |                        |
|                             | 26567              | 26568             | /50/1000     | 624            | Marine                  | 28.0  | .37A             | 6    | G-6   | D.C. Bayonet       | 2C-2V              | .75         | 1.44        | 1,000               |                        |
| 23023                       | 26570              |                   | 48/50/       | 631            | Auto                    | 14.0  | .63A             | 6    | G-6   | S.C. Bayonet       | 2C-2R              | .75         | 1.44        | 1,000               |                        |
|                             | 38866              |                   | /50/         | 656            | Indicator               | 28.0  | .06A             | .62  | T-3¼  | Wedge              | C-2F               | .56         | 1.06        | 2,500               |                        |
|                             | 38196              |                   | /50/         | 657            | Indicator               | 28.0  | .08A             | .62  | T-3¼  | Wedge              | C-2F               | .56         | 1.06        | 15,000              | 79                     |
|                             | 81670              |                   | /50/         | 658            | Indicator               | 14.0  | .08A             | 0.31 | T-3¼  | Wedge              | C-2F               | 0.56        | 1.06        | 15,000              |                        |
|                             | 87407              |                   | /1000        | 680            | Aircraft                | 5.0   | .06A             | .03  | T-1   | Wire Terminal      | C-2R               |             | .24         | 100,000             |                        |
|                             | 87336              |                   | /1000        | 683            | Aircraft                | 5.0   | .06A             | .05  | T-1   | Wire Terminal      | C-2R               |             | .24         | 100,000             |                        |
|                             | 87321              |                   | /1000        | 683AS15        | Aircraft                | 5.0   | .06A             | .05  | T-1   | Wire Terminal      | C-2R               |             | .24         | 100,000             |                        |
|                             | 28706              |                   | /1000        | 685            | Aircraft                | 5.0   | .06A             | .05  | T-1   | Sub-Midget Flanged | C-2R               | .19         | .38         | 40,000              | 79                     |
|                             | 87276              |                   | /1000        | 685AS15        | Aircraft                | 5.0   | .06A             | .05  | T-1   | Sub-Midget Flanged | C-2R               |             | .36         | 100,000             |                        |
|                             | 43132              |                   | /50/         | 705            | Aircraft                | 28.0  | .51A             | 15   | S-8   | S.C. Bayonet       | CC-6               | 1.12        | 2.0         | 900                 |                        |
|                             | 87411              |                   | /1000        | 713            | Aircraft                | 5.0   | .75A             | .09  | T-1   | Wire Terminal      | C-2R               |             | .24         | 100,000             |                        |
|                             | 29903              |                   | /1000        | 715            | Aircraft                | 5.0   | .115A            | .15  | T-1   | Wire Terminal      | C-2R               |             | .25         | 40,000              |                        |
|                             | 29901              |                   | /1000        | 715AS15        | Aircraft                | 5.0   | .115A            | .15  | T-1   | Wire Terminal      | C-2R               |             | .25         | 40,000              |                        |
|                             | 29916              |                   | /1000        | 718            | Aircraft                | 5.0   | .115A            | .15  | T-1   | Sub-Midget Flanged | C-2R               |             | .36         | 40,000              |                        |
|                             | 29905              |                   | /1000        | 718AS15        | Aircraft                | 5.0   | .115A            | .15  | T-1   | Sub-Midget Flanged | C-2R               |             | .36         | 40,000              |                        |
|                             | 26591              |                   | /50/         | 755            | Indicator               | 6.3   | .15A             | .33  | T-3¼  | Miniature Bayonet  | C-2R               | .78         | 1.19        | 20,000              |                        |
|                             | 26593              |                   | /50/         | 756            | Indicator               | 14.0  | .08A             | .31  | T-3¼  | Miniature Bayonet  | C-2F               | .62         | 1.19        | 15,000              |                        |
|                             | 81655              |                   | /50/         | 757            | Indicator               | 28.0  | .08A             | .62  | T-3¼  | Miniature Bayonet  | C-2F               | .62         | 1.19        | 15,000              | 79                     |
|                             | 11014              |                   | /20/         | 767            | Instrument              | 6.0   | 2.00A            | 19   | T-2¼  | Miniature Bayonet  | C-6                | .56         | 1.13        | 50                  | 306                    |
|                             | 11250              |                   | /10/         | 773            | Special Service         | 12.0  | .67A             | 10   | T-2¾  | G-4 Two Pin        | C-6                | .77         | 1.05        | 1,000               | 124, 306               |
|                             | 12723              | 12724             | /10/500      | 774            | Emergency Lighting      | 12.0  | .67A             | 13   | T-2¼  | G-4 Two Pin        | C-6                | .77         | 1.0         | 50                  | 124, 306               |
|                             | 47618              |                   | /500         | 777            | Flashlight, Halogen     | 4.0   | 1.20A            | 5.5  | T-2¼  | G-4 Two Pin        | C-6                | .77         | 1.0         | 275                 | 124, 306               |
|                             | 49718              |                   | /10/         | 778            | Instrument              | 6.0   | 3.33A            | 32   | T-2¾  | G-4 Two Pin        | C-6                | .77         | 1.05        | 100                 | 124, 306               |
|                             | 18344              | 18345             | /10/500      | 780            | Strip Light             | 12.0  | 10W              | 12   | T-2¾  | G-4 Two Pin        | C-6                | .77         | 1.05        | 2,000               | 124, 306               |
|                             | 44840              | 44841             | /10/500      | 782            | Special Service         | 12.0  | 1.66A            | 25   | T-2¾  | G-4 Two Pin        | C-6                | .77         | 1.05        | 2,000               | 124, 306               |
|                             | 44500              | 44501             | /10/500      | 783            | Emergency Lighting      | 12.0  | 1.00A            | 22   | T-2¼  | G-4 Two Pin        | C-6                | .77         | 1.0         | 50                  | 124, 306               |
|                             | 43760              | 43761             | /10/500      | 784            | Emergency Lighting      | 6.0   | 1.00A            | 9    | T-2¼  | G-4 Two Pin        | C-6                | .77         | 1.0         | 50                  | 124, 306               |
|                             | 43762              | 43763             | /10/500      | 785            | Emergency Lighting      | 6.0   | 1.33A            | 13   | T-2¼  | G-4 Two Pin        | C-6                | .77         | 1.0         | 50                  | 124, 306               |
|                             | 43764              | 43765             | /10/500      | 786            | Emergency Lighting      | 6.0   | 2.00A            | 19   | T-2¼  | G-4 Two Pin        | C-6                | .77         | 1.0         | 50                  | 124, 306               |
|                             | 43115              | 43116             | /10/500      | 787            | Instrument              | 6.0   | 1.67A            | 16   | T-2¼  | G-4 Two Pin        | C-6                | .77         | 1.0         | 100                 | 124, 306               |
|                             | 43117              | 43118             | /10/500      | 788            | Instrument              | 6.0   | 3.33A            | 32   | T-2¼  | G-4 Two Pin        | C-6                | .77         | 1.0         | 100                 | 124, 306               |
|                             | 43119              |                   | /10/         | 789            | Instrument              | 12.0  | 1.17A            | 22   | T-2¾  | G-4 Two Pin        | C-6                | .77         | 1.05        | 200                 | 124, 306               |
|                             | 43121              | 43122             | /10/500      | 790            | Instrument              | 14.0  | 1.79A            | 42   | T-2¾  | G-4 Two Pin        | C-6                | .77         | 1.05        | 200                 | 124, 306               |
|                             | 43123              | 43124             | /10/500      | 791            | Instrument              | 14.0  | 2.50A            | 61   | T-2¾  | G-4 Two Pin        | C-6                | .77         | 1.05        | 200                 | 124, 306               |
|                             | 20469              |                   | /10/         | 795            | Signal                  | 12.8  | 50W              | 108  | T-4   | S.C. Bayonet       | C-6                | 1.25        | 2.50        | 200                 | 4, 306                 |

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| Blister                     | Order Code<br>Unit | Bulk  | Case Qty.<br>BP/Unit/Bulk | GE<br>Lamp No. | Primary Application      | Volts | Amps or<br>Watts | MSCP  | Bulb | Base              | Filament<br>Design | LCL<br>(in) | MOL<br>(in) | Rated Life<br>(hrs) | Warning<br>& Footnotes |
|-----------------------------|--------------------|-------|---------------------------|----------------|--------------------------|-------|------------------|-------|------|-------------------|--------------------|-------------|-------------|---------------------|------------------------|
| MINIATURE LAMPS (CONTINUED) |                    |       |                           |                |                          |       |                  |       |      |                   |                    |             |             |                     |                        |
|                             | 40848              | 14132 | /10/540                   | 862            | Tractor                  | 12.8  | 2.93A            | 60    | T-3¼ | Rt Angle Prefocus | C-6                | 1.25        | 2.68        | 1,900               | 306                    |
| 12320                       |                    | 20904 | 48/ /540                  | 880            | Auto Fog. H27W/1         | 12.8  | 2.10A            | 43    | T-3¼ | Axial Prefocus    | C-6<br>C-6         | 1.25        | 2.68        | 300<br>150          | 17,160,306             |
|                             |                    | 27582 | / /540                    | 880L           | Auto Fog. H27W/1         | 12.8  | 2.10A            | 43    | T-3¼ | Axial Prefocus    | C-6                | 1.25        | 2.68        | 300                 | 17,160,306             |
|                             |                    | 14694 | / /540                    | 880X           | Auto Fog. H27W/1         | 12.8  | 2.10A            | 43    | T-3¼ | Axial Prefocus    | C-6                | 1.25        | 2.68        | 1,000               | 17,160,306             |
| 12334                       |                    | 20905 | 48/ /540                  | 881            | Auto Fog. H27W/2         | 12.8  | 2.10A            | 43    | T-3¼ | Rt Angle Prefocus | C-6<br>C-6         | 1.25        | 2.68        | 300<br>150          | 17,160,306             |
|                             |                    | 27583 | / /540                    | 881L           | Auto Fog. H27W/2         | 12.8  | 2.10A            | 43    | T-3¼ | Rt Angle Prefocus | C-6                | 1.25        | 2.68        | 1,000               | 17,160,306             |
|                             |                    | 11646 | / /540                    | 881X           | Auto Fog. H27W/2         | 12.8  | 2.10A            | 43    | T-3¼ | Rt Angle Prefocus | C-6                | 1.25        | 2.68        | 300                 | 17,160,306             |
|                             | 13158              | 13161 | /10/1000                  | 882            | Auto Inst.               | 12.8  | .35A             | 3.8   | T-2¼ | Socket            | C-6                | .37         | 1.18        | 2,000               | 306                    |
|                             | 18167              | 16772 | /10/500                   | 882X           | Auto Inst.               | 12.8  | .35A             | 3.8   | T-2¼ | G-4 Two Pin       | C-6                | .77         | 1.0         | 2,000               | 124,306                |
| 12335                       |                    | 20907 | 48/ /540                  | 885            | Auto Fog                 | 12.8  | 3.90A            | 100   | T-3¼ | Axial Prefocus    | C-6                | 1.25        | 2.68        | 200                 | 4,306                  |
| 14689                       |                    | 20909 | 48/ /540                  | 886            | Auto Fog                 | 12.8  | 3.90A            | 100   | T-3¼ | Rt Angle Prefocus | C-6                | 1.25        | 2.68        | 200                 | 4,306                  |
|                             |                    | 25639 | / /540                    | 887            | Tractor Work Light       | 12.8  | 3.90A            | 95    | T-3¼ | Axial Prefocus    | C-6                | 1.25        | 2.68        | 400                 | 4,306                  |
|                             |                    | 25703 | / /540                    | 888            | Tractor Work Light       | 12.8  | 3.90A            | 95    | T-3¼ | Rt Angle Prefocus | C-6                | 1.25        | 2.68        | 400                 | 4,306                  |
| 12336                       |                    | 20910 | 48/ /540                  | 889            | Auto – Signal            | 12.8  | 2.10A            | 43    | T-3¼ | Right Angle       | C-6                | 1.00        | 2.68        | 300                 | 306                    |
| 12337                       |                    | 20911 | 48/ /540                  | 890            | Auto – Signal            | 12.8  | 2.10A            | 43    | T-3¼ | Axial             | C-6                | 1.00        | 2.68        | 300                 | 306                    |
| 12308                       | 15246              | 15248 | 48/10/500                 | 891            | Auto High Mounted Stop   | 12.8  | .63A             | 11    | T-2¼ | G-4 Two Pin       | C-6                | .77         | 1.0         | 500                 | 306,124                |
|                             | 16481              |       | /10/                      | 892            | Auto, Signal             | 12.8  | 1.25A            | 28    | T-3¼ | Axial             | C-6                | 1.00        | 2.68        | 300                 | 306                    |
| 12338                       |                    | 20913 | 48/ /540                  | 893            | Auto Fog                 | 12.8  | 2.93A            | 75    | T-3¼ | Axial Prefocus    | C-6                | 1.25        | 2.68        | 200                 | 4,17,160,<br>306       |
|                             |                    | 12727 | / /540                    | 893X           | Auto Fog                 | 12.8  | 2.93A            | 75    | T-3¼ | Axial Prefocus    | C-6                | 1.25        | 2.68        | 200                 | 4,17,160,<br>306       |
| 22112                       | 20238              | 18455 | 48/10/540                 | 894            | Tractor                  | 12.8  | 2.93A            | 75    | T-3¼ | Rt Angle Prefocus | C-6                | 1.25        | 2.68        | 200                 | 4,306                  |
|                             |                    | 26345 | / /540                    | 894X           | Tractor                  | 12.8  | 2.93A            | 75    | T-3¼ | Rt Angle Prefocus | C-6                | 1.25        | 2.68        | 200                 | 4,306                  |
| 22113                       |                    | 20914 | 48/ /540                  | 896            | Auto Fog                 | 12.8  | 2.93A            | 75    | T-3¼ | Rt Angle Prefocus | C-6                | 1.25        | 2.68        | 200                 | 4,17,160,<br>306       |
|                             |                    | 12271 | / /540                    | 898            | Auto Fog                 | 12.8  | 2.93A            | 60    | T-3¼ | Rt Angle Prefocus | C-6                | 1.25        | 2.68        | 1,900               | 4,17,160,<br>306       |
| 22111                       |                    | 12272 | 48/ /540                  | 899            | Auto Fog                 | 12.8  | 2.93A            | 60    | T-3¼ | Axial Prefocus    | C-6                | 1.25        | 2.68        | 1,900               | 4,17,160,<br>306       |
| 14273                       |                    | 14007 | 48/ /1000                 | 901            | Garden & Security        | 12.8  | .31A             | 2.9   | T-5  | Wedge             | C-2R               | 0.81        | 1.49        | 500                 |                        |
| 40675                       |                    |       | 30/ /                     | 901A           | Garden & Security. Amber | 12.8  | .31A             | -     | T-5  | Wedge             | C-2R               | 0.81        | 1.49        | 500                 |                        |
| 23024                       | 40462              | 40463 | 48/50/1000                | 904            | Auto – Heavy Duty        | 13.5  | .69A             | 4     | T-5  | Wedge             | C-2F               | .81         | 1.49        | 5,000               | 4                      |
| 12366                       | 40289              | 40290 | 48/50/1000                | 906            | Auto – Heavy Duty        | 13.0  | .69A             | 6     | T-5  | Wedge             | C-2F               | .81         | 1.49        | 1,000               |                        |
|                             |                    | 48505 | / /1000                   | 906A           | Auto, Side Signal-Amber  | 13.0  | .69A             | -     | T-5  | Wedge             | C-2F               | .81         | 1.49        | 1,000               |                        |
|                             | 44754              | 44755 | /50/1000                  | 908            | Emergency Lighting       | 6.0   | 1.50A            | 12    | T-5  | Wedge             | C-2R               | 0.81        | 1.49        | 50                  |                        |
|                             | 44756              | 44757 | /50/1000                  | 909            | Emergency Lighting       | 6.0   | .62A             | 3     | T-5  | Wedge             | C-2R               | 0.81        | 1.49        | 50                  |                        |
| 12365                       | 40504              | 40505 | 48/50/1000                | 912            | Auto – Heavy Duty        | 12.8  | 1.00A            | 12    | T-5  | Wedge             | C-2R               | .81         | 1.49        | 1,000               |                        |
|                             | 44769              |       | /50/                      | 914            | Emergency Lighting       | 4.0   | .90A             | 3.5   | T-5  | Wedge             | C-6                | 0.75        | 1.49        | 50                  |                        |
|                             | 44771              | 44772 | /50/1000                  | 915            | Emergency Lighting       | 12.0  | .75A             | 11    | T-5  | Wedge             | C-2R               | 0.81        | 1.49        | 50                  |                        |
| 23025                       |                    | 16288 | 48/ /1000                 | 916            | Auto, Side Marker        | 13.5  | .54A             | 2     | T-5  | Wedge             | C-2F               | .81         | 1.49        | 10,000              |                        |
| 23026                       | 21860              |       | 48/50/                    | 916NA          | Auto, Side Marker. Amber | 13.0  | .54A             | 1.5   | T-5  | Wedge             | C-2F               | .81         | 1.49        | 10,000              |                        |
|                             |                    | 44801 | / /1000                   | 917            | Home Appliance           | 12.0  | 1.20             | 10    | T-5  | Wedge             | C-2F               | .81         | 1.49        | 1,200               |                        |
| 40179                       | 17837              | 14008 | 30/50/2000                | 918            | Garden & Security        | 12.8  | .56A             | 6.5   | T-5  | Wedge             | C-2R               | .81         | 1.49        | 500                 |                        |
| 26199                       |                    |       | 48/ /                     | 920            | Auto                     | 12.8  | 1.20A            | 10    | T-5  | Wedge             | –                  | .81         | 1.49        | 1,200               |                        |
| 12307                       | 43374              | 11743 | 48/50/1000                | 921            | Auto – Heavy Duty        | 12.8  | 1.40A            | 21    | T-5  | Wedge             | C-2R               | .81         | 1.49        | 500                 | 121                    |
| 85938                       |                    |       | 25/ /                     | 921XEBP        | Undercabinet Fixture     | 12.8  | 18W              | 21.17 | T-5  | Wedge             | C-2R               | .81         | 1.49        | 10,000              |                        |
| 23027                       | 13274              | 13275 | 48/50/1000                | 922            | Auto – Heavy Duty        | 12.8  | .98A             | 15    | T-5  | Wedge             | C-2R               | .81         | 1.49        | 200                 |                        |
| 40180                       |                    |       | 30/ /                     | 923            | Garden & Security        | 12.8  | .91A             | 12.5  | T-5  | Wedge             | C-2R               | .81         | 1.49        | 500                 |                        |
|                             | 13483              |       | /50/                      | 926            | Emergency Lighting       | 4.0   | 1.80A            | 7.5   | T-5  | Wedge             | C-2R               | 0.81        | 1.49        | 50                  |                        |
|                             | 13485              | 13486 | /50/1000                  | 927            | Emergency Lighting       | 6.0   | 1.20A            | 8     | T-5  | Wedge             | C-2R               | 0.81        | 1.49        | 50                  |                        |
|                             | 16975              | 15285 | /50/1000                  | 939            | Emergency Lighting       | 6.0   | .90A             | 5.4   | T-5  | Wedge             | C-2R               | 0.81        | 1.49        | 50                  |                        |



| Blister                     | Order Code<br>Unit | Case Qty.<br>Bulk | BP/Unit/Bulk | GE<br>Lamp No. | Primary Application                | Volts        | Amps or<br>Watts | MSCP      | Bulb  | Base              | Filament<br>Design | LCL<br>(in) | MOL<br>(in) | Rated Life<br>(hrs) | Warning<br>& Footnotes |
|-----------------------------|--------------------|-------------------|--------------|----------------|------------------------------------|--------------|------------------|-----------|-------|-------------------|--------------------|-------------|-------------|---------------------|------------------------|
| MINIATURE LAMPS (CONTINUED) |                    |                   |              |                |                                    |              |                  |           |       |                   |                    |             |             |                     |                        |
|                             |                    | 23684             | / / 2000     | 963            | Emergency Lighting                 | 6.0          | 2.00A            | 15        | T-5   | Wedge             | C-2R               | 0.81        | 1.49        | 50                  |                        |
| 12367                       | 26709              |                   | 48/50/       | 1003           | Auto Interior                      | 12.8         | .94A             | 15        | B-6   | S.C. Bayonet      | C-6                | 1.06        | 1.75        | 200                 |                        |
| 47800                       |                    |                   | 48/ /        | 1003KR         | Auto Interior. Long Life           | 12.8         | .94A             | 15        | B-6   | S.C. Bayonet      | C-6                | 1.06        | 1.75        | 400                 |                        |
| 12373                       | 26726              | 26728             | 48/50/500    | 1004           | Auto Interior and Marine           | 12.8         | .94A             | 15        | B-6   | D.C. Bayonet      | C-6                | 1.06        | 1.75        | 200                 |                        |
|                             | 26775              |                   | /50/         | 1034           | Auto Stop Tail Signal              | 12.8<br>14.0 | 1.80A<br>.59A    | 32<br>3   | S-8   | D.C. Index        | C-6                | 1.25        | 2           | 200<br>5,000        |                        |
|                             | 32147              |                   | /10/         | 1062           | Special Service                    | 40.0         | .92A             | 50        | RP-11 | D.C. Bayonet      | C-5                | 1.25        | 2.25        | 100                 | 305                    |
| 40134                       | 26838              |                   | 48/50/       | 1073           | Auto Signal                        | 12.8         | 1.80A            | 32        | S-8   | S.C. Bayonet      | C-6                | 1.25        | 2.0         | 200                 |                        |
|                             | 26854              |                   | /50/         | 1076           | Auto                               | 12.8         | 1.80A            | 32        | S-8   | D.C. Bayonet      | C-6                | 1.25        | 2.0         | 200                 |                        |
|                             | 37169              |                   | /10/         | 1096           | Instrument, Microscope             | 6.0          | 4.50A            | 30        | S-8   | D.C. Pf. (S)      | C-2R               | 1.00        | 2.0         | 500                 |                        |
|                             | 26872              |                   | /10/         | 1129           | Special Service                    | 6.4          | 2.63A            | 21        | S-8   | S.C. Bayonet      | C-6                | 1.25        | 2.0         | 200                 |                        |
|                             | 26885              |                   | /10/         | 1133           | Instrument                         | 6.2          | 3.91A            | 32        | RP-11 | S.C. Bayonet      | C-2R               | 1.25        | 2.25        | 200                 | 305                    |
| 12346                       | 26903              | 26905             | 48/50/500    | 1141           | Auto                               | 12.8         | 1.44A            | 21        | S-8   | S.C. Bayonet      | C-6                | 1.25        | 2.0         | 1,000               |                        |
| 47802                       |                    |                   | 48/ /        | 1141KR         | Auto. Long Life                    | 12.8         | 1.44A            | 21        | S-8   | S.C. Bayonet      | C-6                | 1.25        | 2.0         | 2,000               |                        |
|                             | 26917              | 26919             | /50/500      | 1142           | Auto                               | 12.8         | 1.44A            | 21        | S-8   | D.C. Bayonet      | C-6                | 1.25        | 2.0         | 1,000               |                        |
|                             | 26945              |                   | /10/         | 1152           | Special Service                    | 12.8         | 1.34A            | 21        | S-8   | D.C. Bayonet      | C-2R               | 1.25        | 2           | 500                 |                        |
| 12297                       |                    |                   | 48/ /        | 1154           | Auto Stop, Tail, Signal            | 6.4<br>7     | 2.63A<br>.75A    | 21<br>3   | S-8   | D.C. Index        | C-6                | 1.25        | 2           | 200<br>1,000        |                        |
|                             | 26955              |                   | /50/         | 1155           | Auto, Truck Marker                 | 13.5         | .59A             | 4         | G-6   | S.C. Bayonet      | 2C-2R              | .81         | 1.44        | 5,000               | 4                      |
| 12344                       | 26960              | 26962             | 48/50/500    | 1156           | Auto Stop                          | 12.8         | 2.10A            | 32        | S-8   | S.C. Bayonet      | C-6                | 1.25        | 2.0         | 1,200               |                        |
| 23334                       |                    |                   | 48/ /        | 1156KR         | Auto Stop. Long Life               | 12.8         | 2.10A            | 32        | S-8   | S.C. Bayonet      | C-6                | 1.25        | 2.0         | 2,400               |                        |
| 21028                       | 20248              |                   | 48/50/       | 1156NA         | Auto Stop. Amber                   | 12.8         | 2.10A            | 24        | S-8   | S.C. Bayonet      | C-6                | 1.25        | 2.0         | 1,200               |                        |
| 12294                       | 26969              | 26971             | 48/50/500    | 1157           | Auto Stop, Signal                  | 12.8<br>14.0 | 2.10A<br>.59A    | 32<br>3   | S-8   | D.C. Index        | C-6<br>C-6         | 1.25        | 2.0         | 1,200<br>5,000      |                        |
| 23337                       |                    |                   | 48/ /        | 1157KR         | Auto Stop, Signal.<br>Long Life    | 12.8<br>14.0 | 2.10A<br>.59A    | 32<br>3   | S-8   | D.C. Index        | C-6<br>C-6         | 1.25        | 2.0         | 2,400<br>10,000     |                        |
| 12310                       | 26975              | 26976             | 48/50/500    | 1157NA         | Amber<br>Amber                     | 12.8<br>14.0 | 2.10A<br>.59A    | 24<br>2.2 | S-8   | D.C. Index        | C-6<br>C-6         | 1.25        | 2.0         | 1,200<br>5,000      |                        |
| 47798                       |                    |                   | 48/ /        | 1157<br>NAKR   | Auto Stop,<br>Amber. Long Life     | 12.8<br>14.0 | 2.10A<br>.59A    | 24<br>2.2 | S-8   | D.C. Index        | C-6<br>C-6         | 1.25        | 2.0         | 2,400<br>10,000     |                        |
|                             | 27004              |                   | /10/         | 1176           | Auto Stop, Tail, Signal            | 12.8<br>14.0 | 1.34A<br>.59A    | 21<br>6   | S-8   | D.C. Bayonet      | C-6<br>C-6         | 1.25        | 2.0         | 300<br>1,500        |                        |
|                             | 27021              | 27023             | /50/500      | 1195           | Auto – Nickel-plated base          | 12.5         | 3.00A            | 50        | RP-11 | S.C. Bayonet      | C-2R               | 1.25        | 2.25        | 300                 | 305                    |
|                             | 27026              |                   | /10/         | 1196           | Auto                               | 12.5         | 3.00A            | 50        | RP-11 | D.C. Bayonet      | C-2R               | 1.25        | 2.25        | 300                 | 305                    |
|                             | 27032              |                   | /10/         | 1203           | Special Service                    | 28.0         | .71A             | 21        | S-8   | S.C. Bayonet      | C-2V               | 1.25        | 2.0         | 400                 |                        |
|                             | 27044              |                   | /50/         | 1224           | Marine                             | 34.0         | .16A             | 3.8       | G-6   | D.C. Bayonet      | C-2F               | .69         | 1.44        | 500                 | 147                    |
|                             | 39904              |                   | /10/         | 1229           | Emergency Lighting                 | 40.0         | .38A             | 15        | S-8   | D.C. Bayonet      | C-2V               | 1.12        | 2.0         | 400                 |                        |
|                             | 81679              |                   | /50/         | 1251           | Instrument, filaments<br>in series | 28.0         | .23A             | 3         | G-6   | S.C. Bayonet      | 2C-2V              | .75         | 1.44        | 2,000               |                        |
|                             | 27097              |                   | /50/         | 1252           | Instrument, filaments<br>in series | 28.0         | .23A             | 3         | G-6   | D.C. Bayonet      | 2C-2V              | .75         | 1.44        | 2,000               |                        |
| 41755                       | 22523              |                   | 48/10/       | 1295NA         | Auto Signal                        | 12.5         | 3.00A            | 37        | S-8   | S.C. Bayonet      | C-2R               | 1.25        | 2.0         | 200                 |                        |
|                             | 12824              |                   | /50/         | 1308           | Aircraft Reading                   | 28.0         | .56A             | 16        | B-6   | S.C. Bayonet      | CC-8               | 1.06        | 1.75        | 2,000               |                        |
|                             | 81656              |                   | /50/         | 1309           | Aircraft Interior                  | 28.0         | .52A             | 15        | B-6   | S.C. Bayonet      | 2C-2R              | 1.06        | 1.75        | 300                 |                        |
|                             | 81667              |                   | /50/         | 1315           | Aircraft Emergency<br>Lighting     | 2.5          | 1.00A            | 1.75      | G-5   | S.C. Bayonet      | C-6                | .69         | 1.25        | 20                  | 116                    |
|                             | 34265              |                   | /50/         | 1317           | Aircraft Emergency<br>Lighting     | 6.00         | .51A             | 3.4       | B-6   | S.C. Bayonet      | C-6                | 1.12        | 1.75        | 100                 | 116                    |
|                             | 27150              |                   | /10/         | 1383           | Auto, Reading Light                | 13.0         | 20W              | –         | R-12  | S.C. Bayonet      | C-8                | –           | 2.63        | 300                 |                        |
|                             | 27154              |                   | /10/         | 1385           | Special Reading Light              | 28.0         | 20W              | –         | R-12  | S.C. Bayonet      | CC-8               | –           | 2.63        | 300                 |                        |
|                             | 27159              |                   | /10/         | 1388           | Special Telephone Trouble          | 24.0         | 20W              | –         | R-12  | D.C. Bayonet      | CC-8               | –           | 2.63        | 500                 |                        |
|                             | 27179              |                   | /50/         | 1408           | Signal                             | 10.0         | .13A             | .85       | T-3¼  | Miniature Bayonet | C-2V               | .62         | 1.19        | 250                 | 13                     |
|                             | 27193              |                   | /10/         | 1434           | Instrument, Photocell<br>exciter   | 3.7          | 2.75A            | 11        | T-5   | S.C. Bayonet      | C-6                | 1.12        | 1.75        | 100                 |                        |



# Miniature & Sealed Beam Lamps

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| Blister                     | Order Code<br>Unit | Case Qty.<br>Bulk | GE<br>BP/Unit/Bulk | Lamp No. | Primary Application       | Volts | Amps or<br>Watts | MSCP | Bulb | Base              | Filament<br>Design | LCL<br>(in) | MOL<br>(in) | Rated Life<br>(hrs) | Warning<br>& Footnotes |
|-----------------------------|--------------------|-------------------|--------------------|----------|---------------------------|-------|------------------|------|------|-------------------|--------------------|-------------|-------------|---------------------|------------------------|
| MINIATURE LAMPS (CONTINUED) |                    |                   |                    |          |                           |       |                  |      |      |                   |                    |             |             |                     |                        |
| 12329                       | 27207              | 27209             | 48/50/4000         | 1445     | Auto / Toy Train Ratings  | 14.4  | .135A            | .7   | G-3½ | Miniature Bayonet | C-2V               | .50         | .94         | 2,000               | 13                     |
|                             | 27252              |                   | /50/               | 1449     | Toy Train                 | 14.0  | .20A             | 2    | G-3½ | Miniature Screw   | C-2V               | .72         | .94         | 250                 | 13                     |
|                             | 27263              |                   | /50/               | 1450     | Indicator                 | 24.0  | .035A            | .23  | G-3½ | Miniature Bayonet | C-2F               | .50         | .94         | 3,000               |                        |
|                             | 28310              |                   | /10/               | 1460     | Medical                   | 6.5   | 2.75A            | 23   | S-8  | D.C. Pf. (A)      | C-6                | 1.25        | 2.0         | 100                 | 11                     |
|                             | 81669              | 37343             | /10/500            | 1460X    | Microscope Illuminator    | 6.5   | 2.75A            | 23   | S-8  | D.C. Pf. (A)      | C-6                | 1.25        | 2.0         | 100                 | 11                     |
|                             | 27305              |                   | /10/               | 1468     | Medical Instrument        | 6.0   | 4.50A            | 30   | S-8  | D.C. Pf. (S)      | C-2R               | 1.25        | 2.0         | 500                 |                        |
|                             | 27356              |                   | /50/               | 1487     | Indicator                 | 14.0  | .20A             | 1.4  | T-3¼ | Miniature Screw   | C-2F               | .94         | 1.19        | 3,000               |                        |
|                             | 27382              |                   | /10/               | 1493     | Instrument, Microscope    | 6.5   | 2.75A            | 23   | S-8  | D.C. Bayonet      | C-6                | 1.12        | 2.0         | 100                 | 11                     |
|                             | 81657              |                   | /10/               | 1495     | Aircraft                  | 28.0  | .30A             | 6    | T-4½ | Miniature Bayonet | C-2F               | .62         | 1.38        | 500                 | 14                     |
|                             | 81678              |                   | /10/               | 1495X    | Aircraft – Gas filled     | 28.0  | .30A             | 6    | T-4½ | Miniature Bayonet | C-2F               | .62         | 1.38        | 500                 |                        |
|                             | 27431              |                   | /10/               | 1561     | Instrument, Colorimeter   | 6.3   | 4.00A            | 24   | S-11 | S.C. Pf. (B)      | C-8Z               | .88         | 2.38        | 1,500               |                        |
|                             | 81672              |                   | /10/               | 1591     | Auto                      | 28.0  | .61A             | 15   | S-8  | S.C. Bayonet      | C-2V               | 1.12        | 2.0         | 1,000               | 13                     |
|                             | 40945              |                   | /50/               | 1591AF   | Aircraft – All frosted    | 28.0  | .61A             | –    | S-8  | S.C. Bayonet      | C-2V               | –           | 2.0         | 1,000               | 13                     |
|                             | 27439              |                   | /10/               | 1594     | Instrument, Microscope    | 6.0   | 5.00A            | 36   | S-8  | D.C. Bayonet      | C-6                | 1.25        | 2.0         | 250                 |                        |
|                             | 27461              |                   | /10/               | 1612     | Instrument                | 5.4   | 1.90A            | 10   | S-8  | D.C. Bayonet      | C-6                | 1.25        | 2.0         | 1,000               | 147                    |
|                             | 27472              |                   | /10/               | 1619     | Instrument                | 6.7   | 1.90A            | 15   | S-8  | S.C. Bayonet      | C-6                | 1.12        | 2.0         | 500                 |                        |
|                             | 27488              | 27489             | /10/500            | 1630     | Instrument, Microscope    | 6.5   | 2.75A            | 23   | S-8  | D.C. Pf. (A)      | C-6                | 1.00        | 2.0         | 100                 | 11                     |
|                             | 27491              |                   | /10/               | 1631X    | Instrument, Colorimeter   | 6.5   | 2.75A            | 23   | S-8  | D.C. Pf. (A)      | C-6                | 1.00        | 2.0         | 100                 | 11                     |
|                             | 27496              |                   | /10/               | 1634     | Instrument, Microscope    | 20.0  | 1.00A            | 24   | S-8  | D.C. Pf. (A)      | CC-6               | 1.25        | 2.0         | 200                 |                        |
|                             | 27504              |                   | /50/               | 1638     | Marine                    | 28.0  | 1.02A            | 32   | S-8  | D.C. Bayonet      | 2C-6               | 1.25        | 2.0         | 500                 |                        |
|                             | 27529              | 27530             | /10/500            | 1662     | Aircraft                  | 28.0  | .93A             | 32   | S-8  | D.C. Index        | CC-6               | 1.25        | 2.0         | 400                 | 13, 15, 33             |
|                             |                    |                   |                    |          |                           | 28.0  | .34A             | 6    | S-8  | D.C. Index        | C-2V               | –           | –           | 1,000               |                        |
|                             | 27532              |                   | /50/               | 1665     | Aircraft                  | 28.0  | .80A             | 21   | S-8  | S.C. Bayonet      | C-2V               | 1.12        | 2.0         | 1,000               | 13                     |
|                             | 81658              |                   | /50/               | 1665AF   | Aircraft – All frosted    | 28.0  | .80A             | –    | S-8  | S.C. Bayonet      | C-2V               | –           | 2.0         | 1,000               | 13                     |
|                             | 27548              |                   | /10/               | 1680     | Aircraft                  | 6.0   | 4.10A            | 32   | S-8  | S.C. Bayonet      | C-6                | 1.25        | 2.0         | 300                 |                        |
|                             | 81668              |                   | /10/               | 1680X    | Aircraft                  | 6.0   | 4.10A            | 32   | S-8  | S.C. Bayonet      | C-6                | 1.25        | 2.0         | 300                 |                        |
|                             | 27557              |                   | /50/               | 1683     | Aircraft. Series filament | 28.0  | 1.02A            | 32   | S-8  | S.C. Bayonet      | 2C-6               | 1.25        | 2.0         | 500                 |                        |
|                             | 27566              |                   | /50/               | 1691     | Aircraft. Series filament | 28.0  | .61A             | 15   | S-8  | S.C. Bayonet      | 2C-2R              | 1.12        | 2.0         | 1,000               |                        |
|                             | 27568              |                   | /50/               | 1691AF   | Aircraft. Frosted         | 28.0  | .61A             | –    | S-8  | S.C. Bayonet      | 2C-2R              | –           | 2.0         | 1,000               |                        |
|                             | 27571              |                   | /10/               | 1692     | Marine                    | 28.0  | .61A             | 15   | S-8  | D.C. Bayonet      | 2C-2R              | 1.12        | 2.0         | 1,000               |                        |
|                             | 87408              |                   | /1000              | 1764     | Aircraft                  | 28.0  | .04A             | .34  | T-1¾ | Wire Terminal     | C-2F               | .4          | –           | 4,000               |                        |
|                             | 27630              |                   | /10/               | 1777     | Aircraft Tail Light       | 12.8  | 1.52A            | 26   | S-8  | S.C. Bayonet      | C-2R               | 1.12        | 2.0         | 400                 |                        |
|                             | 27667              |                   | /50/               | 1813     | Radio                     | 14.4  | .10A             | .86  | T-3¼ | Miniature Bayonet | C-2V               | .62         | 1.19        | 1,000               | 13                     |
|                             | 27677              | 27679             | /50/4000           | 1815     | Indicator                 | 14.0  | .20A             | 1.4  | T-3¼ | Miniature Bayonet | C-2F               | .75         | 1.19        | 3,000               | 147                    |
| 12359                       | 27688              |                   | 48/50/             | 1816     | Aircraft and Auto         | 13.0  | .33A             | 3    | T-3¼ | Miniature Bayonet | C-2V               | .62         | 1.19        | 1,000               | 13                     |
|                             | 81659              |                   | /50/               | 1818     | Aircraft                  | 24.0  | .17A             | 3.3  | T-3¼ | Miniature Bayonet | C-2F               | .62         | 1.19        | 250                 | 147                    |
|                             | 81660              | 81661             | /50/1000           | 1819     | Indicator                 | 28.0  | .04A             | .34  | T-3¼ | Miniature Bayonet | C-2F               | .62         | 1.19        | 2,500               |                        |
|                             | 81663              |                   | /50/               | 1820     | Indicator                 | 28.0  | .10A             | 1.6  | T-3¼ | Miniature Bayonet | C-2F               | .62         | 1.19        | 1,000               |                        |
|                             | 27749              |                   | /50/               | 1822     | Indicator                 | 36.0  | .10A             | 2.1  | T-3¼ | Miniature Bayonet | C-2F               | .62         | 1.19        | 1,000               |                        |
|                             | 27772              |                   | /50/               | 1828     | Indicator                 | 37.5  | .05A             | .65  | T-3¼ | Miniature Bayonet | C-2F               | .62         | 1.19        | 3,000               |                        |
|                             | 81664              |                   | /50/               | 1829     | Indicator                 | 28.0  | .07A             | 1    | T-3¼ | Miniature Bayonet | C-2F               | .62         | 1.19        | 1,000               |                        |
|                             | 27804              |                   | /50/               | 1835     | Indicator                 | 55.0  | .05A             | 1.1  | T-3¼ | Miniature Bayonet | C-2F               | .62         | 1.19        | 5,000               |                        |
|                             | 27816              |                   | /50/               | 1843     | Indicator                 | 28.0  | .022A            | .2   | T-3¼ | Miniature Bayonet | C-2F               | .62         | 1.19        | 3,000               | 15                     |
|                             | 27819              |                   | /50/               | 1847     | Radio, TV                 | 6.3   | .15A             | .38  | T-3¼ | Miniature Bayonet | C-2R               | .78         | 1.19        | 5,000               | 44                     |
|                             | 27833              |                   | /50/               | 1850     | Signal                    | 5.0   | .09A             | .25  | T-3¼ | Miniature Bayonet | C-2R               | .62         | 1.19        | 1,500               | 116                    |
|                             | 81665              | 81666             | /50/1000           | 1864     | Aircraft                  | 28.0  | .17A             | 3    | T-3¼ | Miniature Bayonet | C-2F               | .62         | 1.19        | 1,500               |                        |
|                             | 27868              |                   | /50/               | 1866     | Radio                     | 6.3   | .25A             | .65  | T-3¼ | Miniature Bayonet | C-2R               | .78         | 1.19        | 5,000               | 44                     |
|                             | 40383              | 40384             | /50/1000           | 1873     | Aircraft                  | 28.0  | .20A             | 3    | T-3¼ | Miniature Bayonet | C-2F               | .62         | 1.19        | 7,000               |                        |
|                             | 27889              |                   | /10/               | 1876     | Photoelectric Scanner     | 3.5   | 2.50A            | 6.5  | T-5  | S.C. Bayonet      | C-6                | 1.12        | 1.75        | 2,000               |                        |
|                             | 27907              |                   | /50/               | 1889     | Auto – Heavy Duty         | 14.0  | .27A             | 2    | T-3¼ | Miniature Bayonet | C-2F               | .56         | 1.19        | 2,000               |                        |
| 12331                       | 27917              |                   | 48/50/             | 1891     | Auto, Radio and Indicator | 14.0  | .24A             | 2    | T-3¼ | Miniature Bayonet | C-2F               | .62         | 1.19        | 500                 |                        |



| Blister                     | Order Code<br>Unit | Case Qty.<br>Bulk | GE<br>BP/Unit/Bulk | Lamp No.     | Primary Application                 | Volts        | Amps or<br>Watts | MSCP      | Bulb  | Base               | Filament<br>Design | LCL<br>(in)  | MOL<br>(in) | Rated Life<br>(hrs) | Warning<br>& Footnotes |
|-----------------------------|--------------------|-------------------|--------------------|--------------|-------------------------------------|--------------|------------------|-----------|-------|--------------------|--------------------|--------------|-------------|---------------------|------------------------|
| MINIATURE LAMPS (CONTINUED) |                    |                   |                    |              |                                     |              |                  |           |       |                    |                    |              |             |                     |                        |
|                             | 27927              |                   | /50/               | 1892         | Auto and Indicator                  | 14.4         | .12A             | .75       | T-3¼  | Miniature Bayonet  | C-2F               | .62          | 1.19        | 1,000               |                        |
| 12332                       | 27935              | 27937             | 48/50/4000         | 1893         | Auto – Heavy Duty                   | 14.0         | .33A             | 2         | T-3¼  | Miniature Bayonet  | C-2F               | .62          | 1.19        | 7,500               |                        |
| 12330                       | 27945              | 27948             | 48/50/4000         | 1895         | Auto, Truck Marker                  | 14.0         | .27A             | 2         | G-4½  | Miniature Bayonet  | C-2F               | .56          | 1.07        | 2,000               |                        |
|                             | 34021              |                   | /10/               | 1939X        | Aircraft Marker                     | 28.0         | 1.79A            | 70        | T-7   | S.C. Bayonet       | C-2V               | 1.25         | 2.16        | 300                 | 13, 14                 |
|                             | 28008              |                   | /10/               | 1940         | Aircraft Marker                     | 14.0         | 3.57A            | 75        | T-7   | S.C. Bayonet       | C-8Z               | 1.25         | 2.16        | 300                 | 14                     |
|                             | 45087              |                   | /10/               | 1944X        | Special Service -<br>silver contact | 14.0         | 3.57A            | 75        | T-7   | S.C. Bayonet       | C-8Z               | 1.25         | 2.25        | 300                 | 14                     |
|                             | 18617              |                   | /10/               | 1946         | Aircraft                            | 28.0         | 250W             | 660       | T-3   | Two Pin with Leads | CC-6               | .87          | 1.46        | 50                  | 304                    |
|                             | 28011              |                   | /10/               | 1958         | Aircraft                            | 28.0         | 150W             | 250       | T-4   | Tab                | CC-8               | .75          | 2.25        | 300                 | 304                    |
|                             | 39641              |                   | /10/               | 1962B        | Special Service                     | 8.5          | 62W              | 110       | T-3   | Wire Terminal      | C-6                | .285         | 1.14        | 50                  | 304                    |
|                             |                    | 12859             | / /100             | 1962BG       | Aircraft                            | 8.5          | 62W              | 110       | T-3   | Wire Terminals     | C-6                | .285         | 1.14        | 50                  | 304                    |
|                             |                    | 37947             | / /100             | 1962DX       | Special Service                     | 8.5          | 62W              | 80        | T-3   | Wire Terminals     | C-6                | .285         | 1.14        | 150                 | 304                    |
|                             | 44152              |                   | /10/               | 1962DZ       | Special Service                     | 8.5          | 62W              | 80        | T-3   | Wire Terminals     | C-6                | .285         | 1.14        | 150                 | 304                    |
|                             | 13667              |                   | /10/               | 1962TY       | Medical                             | 8.5          | 62W              | 110       | T-3   | Wire Terminals     | C-6                | .285         | 1.14        | 50                  | 304                    |
|                             | 28034              |                   | /10/               | 1968         | Aircraft Gunsight                   | 28.0         | 25W              | 15        | T-3   | Double Slide       | C-2V               | .41          | 1.17        | 500                 | 13, 304                |
|                             | 28036              |                   | /10/               | 1970         | Aircraft                            | 28.0         | 100W             | 150       | T-3   | Special Sleeve     | CC-8               | –            | 2.25        | 1,000               | 304                    |
|                             | 41938              |                   | /10/               | 1970X        | Aircraft                            | 28.0         | 100W             | 140       | T-3   | Special Sleeve     | CC-8               | –            | 2.25        | 1,000               | 13, 304                |
|                             | 32780              |                   | /10/               | 1974         | Instrument                          | 6.0          | 20W              | 10        | T-3   | Wire Terminals     | C-6                | .285         | 1.14        | 10,000              | 304                    |
|                             | 38545              |                   | /10/               | 1978X        | Aircraft Navigation                 | 10.0         | 100W             | 130       | T-3   | Special            | C-8                | –            | 2.15        | 2,000               | 304                    |
|                             | 38627              |                   | /10/               | 1982         | Aircraft Navigation                 | 28.0         | 75W              | 110       | T-3   | S.C. Bayonet       | CC-8               | 1.06         | 1.88        | 1,000               | 13, 304                |
|                             | 21061              |                   | /10/               | 1982SP       | Aircraft – Quartz Bulb              | 28.0         | 75W              | 107       | T-3   | S.C. Bayonet       | CC-6               | 1.00         | 1.97        | 2,000               | 304                    |
|                             | 39718              |                   | /10/               | 1983         | Aircraft – Navigation               | 10.0         | 100W             | 130       | T-4   | Two Pin            | C-8                | 1.25         | 1.80        | 2,000               | 304                    |
|                             | 44717              |                   | /10/               | 1986         | Aircraft – Quartz bulb              | 28.0         | 250W             | 600       | T-4   | Wire Terminal      | CC-6               | 1.03         | 2.00        | 100                 | 304                    |
|                             | 47695              |                   | /10/               | 1987         | Aircraft – Quartz bulb              | 28.0         | 150W             | 240       | T-4   | D.C. Bayonet       | CC-6               | 1.18         | 2.44        | 700                 | 304                    |
|                             | 38535              |                   | /10/               | 1988         | Aircraft Gunsight                   | 10.0         | 100W             | 130       | T-3   | Special Wire Leads | C-8                | –            | 2.15        | 2,000               | 304                    |
| 12326                       | 19280              |                   | 48/10/             | 2040         | Auto Light Bar                      | 12.8         | .625A            | 10.5      | T-2¼  | Wedge              | C-6                | .40          | 1.25        | 500                 | 306                    |
| 12296                       | 44760              | 18620             | 48/50/500          | 2057         | Auto Stop, Signal                   | 12.8<br>14.0 | 2.10A<br>.48A    | 32<br>2   | S-8   | D.C. Index         | C-6<br>C-6         | 1.25         | 2.0         | 1,200<br>5,000      |                        |
| 23339                       |                    | 10018             | 48/ /500           | 2057KR       | Auto Stop, Signal.<br>Long Life     | 12.8<br>14.0 | 2.10A<br>.48A    | 32<br>2   | S-8   | D.C. Index         | C-6<br>C-6         | 1.25         | 2.0         | 2,400<br>10,000     |                        |
| 12312                       | 44763              | 44764             | 48/50/500          | 2057NA       | Auto Stop, Signal. Amber            | 12.8<br>14.0 | 2.10A<br>.48A    | 24<br>1.5 | S-8   | D.C. Index         | C-6<br>C-6         | 1.25         | 2.0         | 1,200<br>5,000      |                        |
| 47799                       |                    |                   | 48/ /              | 2057<br>NAKR | Auto Stop. Amber.<br>Long Life      | 12.8<br>14.0 | 2.10A<br>.48A    | 24<br>1.5 | S-8   | D.C. Index         | C-6<br>C-6         | 1.25<br>1.25 | 2.0         | 2,400<br>10,000     |                        |
|                             |                    | 12899             | / /600             | 2058U        | Auto/Truck Stop, Signal             | 12.8<br>14.0 | 2.10A<br>.48A    | 32<br>2   | S-8   | Wire Terminals     | C-6<br>C-6         | –            | 1.81        | 1,200<br>5,000      | 113                    |
|                             | 26697              |                   | /10/               | 2059         | Aircraft-Reading Lamps              | 12.0         | .833A            | 9.1       | T-2½  | Miniature Bayonet  | C-8                | 0.59         | 1.30        | 4,000               | 304                    |
|                             | 26698              |                   | /10/               | 2059X        | Aircraft-Reading Lamps              | 12.0         | .833A            | 8         | T-2½  | Miniature Bayonet  | C-8                | 0.59         | 1.30        | 4,000               | 304                    |
|                             | 21494              |                   | /10/               | 2074         | Instrument                          | 7.0          | 25W              | 24        | T-3   | Wire Terminals     | C-6                | .285         | 1.14        | 2,700               | 304                    |
|                             |                    | 28085             | / /600             | 2144         | Auto/Truck                          | 12.8         | 2.10A            | 32        | S-8   | Wire Terminals     | C-6                | –            | 1.75        | 1,200               | 113                    |
|                             |                    | 32701             | / /500             | 2155         | Truck                               | 28.0<br>28.0 | .93A<br>.34A     | 32<br>6   | S-8   | Wire Terminals     | CC-6<br>C-2V       | –            | 1.75        | 400<br>1,000        | 13, 15                 |
|                             | 34763              |                   | /50/               | 2232         | Aircraft                            | 28.0         | .643A            | 18        | S-8   | S.C. Bayonet       | CC-8               | 1.19         | 2.0         | 2,000               |                        |
|                             | 26702              |                   | /50/               | 2232LL       | Aircraft Long Life                  | 28.0         | .643A            | 18        | S-8   | S.C. Bayonet       | CC-8               | 1.19         | 2.0         | 4,000               |                        |
|                             | 81677              |                   | /10/               | 2232SB       | Aircraft. Reflectorized             | 28.0         | .643A            | –         | S-8   | S.C. Bayonet       | CC-8               | 1.19         | 2.0         | 2,000               |                        |
|                             | 36906              |                   | /10/               | 2233         | Aircraft                            | 28.0         | .766A            | 21        | S-8   | S.C. Bayonet       | CC-8               | 1.19         | 2.0         | 2,000               |                        |
|                             |                    | 44964             | / /1000            | 2286D        | Auto/Truck                          | 14.0         | .35A             | 2.7       | T-3¼  | Wire Term Down     | C-2F               | –            | 1.05        | 1,500               |                        |
|                             | 28100              |                   | /10/               | 2331         | Instrument                          | 5.9<br>6.2   | 4.66A<br>4.49A   | 32<br>32  | RP-11 | D.C. Pf. (S)       | C-6                | 1.18         | 2.25        | 400<br>400          | 305                    |
| 12298                       | 16291              | 16290             | 48/50/500          | 2357         | Auto Stop, Signal                   | 12.8<br>14.0 | 2.20A<br>.59A    | 40<br>3   | S-8   | D.C. Index         | C-6<br>C-6         | 1.25         | 2.0         | 400<br>5,000        |                        |
| 12299                       | 15698              | 15699             | 48/50/500          | 2357NA       | Auto Stop, Signal.<br>Amber         | 12.8<br>14.0 | 2.20A<br>.59A    | 30<br>2.2 | S-8   | D.C. Index         | C-6<br>C-6         | 1.25         | 2.0         | 400<br>5,000        |                        |



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|------------------------------------|-------------------|--------------------------------|-----------------------------------|--------------|------------------|-----------|--------------------|--------------------|--------------------|--------------|--------------|---------------------|------------------------|
| <b>MINIATURE LAMPS (CONTINUED)</b> |                   |                                |                                   |              |                  |           |                    |                    |                    |              |              |                     |                        |
| 18047                              | /10/              | 2396                           | Auto Stop                         | 12.8         | 2.23A            | 40        | S-8                | S.C. Bayonet       | C-6                | 1.25         | 2.0          | 400                 |                        |
| 27560                              | 48/ /             | 2397                           | Auto Stop, Signal                 | 12.8<br>14.0 | 2.23A<br>.48A    | 40<br>2   | S-8                | D.C. Index         | C-6<br>C-6         | 1.25         | 2.0          | 400<br>5,000        |                        |
| 19792                              | / /100            | 2556                           | Aircraft                          | 28.0         | 200W             | 525       | T-3                | Two Pin            | CC-6               | .87          | 1.46         | 50                  | 304                    |
| 19566                              | / /100            | 2586                           | Aircraft                          | 28.0         | 250W             | 600       | T-4                | Two Pin with Leads | CC-6               | 1.30         | 1.90         | 100                 | 304                    |
| 43805                              | /10/              | 2604X                          | Instrument – Lens end             | 5.0          | 2.00A            |           | TL-2 $\frac{3}{4}$ | G-4 Two Pin        | C-6                | –            | 1.18         | 5,000               | 124, 128, 306          |
| 36508                              | /10/              | 3011                           | Aircraft                          | 28.0         | 1.29A            | 44        | S-11               | S.C. Bayonet       | C-2V               | 1.25         | 2.38         | 1,000               | 13                     |
| 12305 18389                        | 48/50/            | 3057                           | Auto Stop, Signal                 | 12.8<br>14.0 | 2.10A<br>.48A    | 2<br>2    | S-8                | Plastic Wedge      | C-6<br>C-6         | 1.10         | 2.09         | 1,200<br>5,000      |                        |
| 26378                              | 48/ /             | 3057KR                         | Auto Stop, Signal.<br>Long Life   | 12.8<br>14.0 | 2.10A<br>.48A    | 32<br>2   | S-8                | Plastic Wedge      | C-6<br>C-6         | 1.1          | 2.09         | 2,000<br>10,000     |                        |
| 12313 18391                        | 48/50/            | 3057NA                         | Auto Stop, Signal. Amber          | 12.8<br>14.0 | 2.10A<br>.48A    | 24<br>1.5 | S-8                | Plastic Wedge      | C-6<br>C-6         | 1.10         | 2.09         | 1,200<br>5,000      |                        |
| 14698                              | /10/              | 3078                           | Aircraft Navigation               | 10.0         | 100W             | 95        | T-3                | Special            | C-8                | –            | 2.15         | 4,500               | 304                    |
| 23028                              | 48/ /             | 3155                           | Auto Signal                       | 12.8         | 1.60A            | 21        | S-8                | Plastic Wedge      | C-6                | 1.10         | 2.09         | 1,500               |                        |
| 12351 21863                        | 48/50/            | 3156                           | Auto Stop                         | 12.8         | 2.10A            | 32        | S-8                | Plastic Wedge      | C-6                | 1.10         | 2.09         | 1,200               |                        |
| 27565                              | 48/ /             | 3156KR                         | Auto Stop. Long Life              | 12.8         | 2.10A            | 32        | S-8                | Plastic Wedge      | C-6                | 1.10         | 2.09         | 2,000               |                        |
| 12306 17172                        | 48/50/            | 3157                           | Auto Stop, Signal                 | 12.8<br>14.0 | 2.10A<br>.59A    | 32<br>3   | S-8                | Plastic Wedge      | C-6<br>C-6         | 1.10         | 2.09         | 1,200<br>5,000      |                        |
| 26377                              | 48/ /             | 3157KR                         | Auto Stop, Signal.<br>Long Life   | 12.8<br>14.0 | 2.10A<br>.59A    | 32<br>3   | S-8                | Plastic Wedge      | C-6<br>C-6         | 1.10         | 2.09         | 2,000<br>10,000     |                        |
| 12314 17173                        | 48/50/            | 3157NA                         | Auto Stop, Signal. Amber          | 12.8<br>14.0 | 2.10A<br>.59A    | 24<br>2.2 | S-8                | Plastic Wedge      | C-6<br>C-6         | 1.10         | 2.09         | 1,200<br>5,000      |                        |
| 26380                              | 48/ /             | 3157<br>NAKR                   | Stop, Signal. Amber.<br>Long Life | 12.8<br>14.0 | 2.10A<br>.59A    | 24<br>2.2 | S-8                | Plastic Wedge      | C-6<br>C-6         | 1.10<br>1.10 | 2.09<br>2.09 | 2,000<br>10,000     |                        |
| 14387 22525                        | 48/50/            | 3357/3457                      | Auto Stop, Signal                 | 12.8<br>14.0 | 2.10A<br>.59A    | 40<br>3   | S-8                | Plastic Wedge      | C-6<br>C-6         | 1.10         | 2.09         | 400<br>5,000        |                        |
| 26379                              | 48/ /             | 3457KR                         | Auto Stop, Signal.<br>3357 Sub    | 12.8<br>14.0 | 2.10A<br>.59A    | 40<br>3   | S-8                | Plastic Wedge      | C-6<br>C-6         | 1.10         | 2.09         | 800<br>10,000       |                        |
| 14388 22526                        | 48/50/            | 3357NA/<br>3457NA              | Auto Stop, Signal.<br>3457NA Sub  | 12.8<br>14.0 | 2.10A<br>.59A    | 30<br>2.2 | S-8                | Plastic Wedge      | C-6<br>C-6         | 1.10         | 2.09         | 400<br>5,000        |                        |
| 25834                              | 48/ /             | 3496                           | Auto Japanese Vehicles            | 12.8<br>14.0 | 2.10A<br>.59A    | 43<br>3   | T-7                | D.C. Index         | C-6<br>C-6         | –            | 2.00         | 600<br>5,000        |                        |
| 25835                              | 48/ /             | 3497                           | Auto Japanese Vehicles            | 12.8         | 2.10A            | 45        | T-7                | S.C. Bayonet       | C-6                | –            | 2.00         | 600                 |                        |
| 25837                              | 48/ /             | 3652                           | Auto-Japanese Vehicles            | 13.5         | .37A             | 6         | T-3 $\frac{3}{4}$  | Wedge              | –                  | –            | 1.06         | 700                 |                        |
| 15657                              | 48/ /             | 4157KR                         | Auto Stop, Signal.<br>Long Life   | 12.8<br>14.0 | 2.23A<br>.59A    | 32<br>3   | S-8                | Plastic Wedge      | C-6<br>C-6         | 1.10         | 2.09         | 3,600<br>10,000     |                        |
| 47458                              | 48/ /             | 4157<br>NAKR                   | Stop, Signal. Amber.<br>Long Life | 12.8<br>14.0 | 2.23A<br>.59A    | 24<br>2.2 | S-8                | Plastic Wedge      | C-6<br>C-6         | 1.10<br>1.10 | 2.09<br>2.09 | 3,600<br>10,000     |                        |
| 28154                              | /24/              | 5004CW                         | Aircraft – Cool White             | A.C.         | 4W               | 11.9      | T-5                | Miniature Pinless  |                    |              | 6.00         | 7,500               | 32, 162, 309           |
| 28155                              | /24/              | 5004WW                         | Aircraft – Warm White             | A.C.         | 4W               | 11.1      | T-5                | Miniature Pinless  |                    |              | 6.00         | 7,500               | 32, 162, 309           |
| 28160                              | /24/              | 5008CW                         | Aircraft – Cool White             | A.C.         | 8W               | 35.4      | T-5                | Miniature Pinless  |                    |              | 12.00        | 7,500               | 32, 162, 309           |
| 28163                              | /24/              | 5008WW                         | Aircraft – Warm White             | A.C.         | 8W               | 34.6      | T-5                | Miniature Pinless  |                    |              | 12.00        | 7,500               | 32, 162, 309           |
| 28168                              | /24/              | 5013CW                         | Aircraft – Cool White             | A.C.         | 13W              | 65.2      | T-5                | Miniature Pinless  |                    |              | 21.00        | 7,500               | 32, 162, 309           |
| 28169                              | /24/              | 5013WW                         | Aircraft – Warm White             | A.C.         | 13W              | 62.8      | T-5                | Miniature Pinless  |                    |              | 21.00        | 7,500               | 32, 162, 309           |
| 27367                              | /24/              | 5104CW                         | Aircraft – Cool White             | A.C.         | 4W               | 11.9      | T-5                | Miniature BiPin    |                    |              | 6.00         | 7,500               | 32, 162, 309           |
| 28173                              | /24/              | 5104WW                         | Aircraft – Warm White             | A.C.         | 4W               | 11.1      | T-5                | Miniature BiPin    |                    |              | 6.00         | 7,500               | 32, 162, 309           |
| 12774                              | /24/              | 5106CW                         | Aircraft – Cool White             | A.C.         | 6W               | 24.7      | T-5                | Miniature BiPin    |                    |              | 9.00         | 7,500               | 32, 162, 309           |
| 33612                              | /24/              | 5106WW                         | Aircraft – Warm White             | A.C.         | 6W               | 23.9      | T-5                | Miniature BiPin    |                    |              | 9.00         | 7,500               | 32, 162, 309           |
| 27466                              | /24/              | 5108CW                         | Aircraft – Cool White             | A.C.         | 8W               | 35.4      | T-5                | Miniature BiPin    |                    |              | 12.00        | 7,500               | 32, 162, 309           |
| 28175                              | /24/              | 5108WW                         | Aircraft – Warm White             | A.C.         | 8W               | 34.6      | T-5                | Miniature BiPin    |                    |              | 12.00        | 7,500               | 32, 162, 309           |
| 12775                              | /24/              | 5113CW                         | Aircraft – Cool White             | A.C.         | 13W              | 65.2      | T-5                | Miniature BiPin    |                    |              | 21.00        | 7,500               | 32, 162, 309           |
| 28178                              | /24/              | 5113WW                         | Aircraft – Warm White             | A.C.         | 13W              | 62.8      | T-5                | Miniature BiPin    |                    |              | 21.00        | 7,500               | 32, 162, 309           |

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## Miniature & Sealed Beam Lamps

| Order Code<br>Blister Unit         | Case Qty.<br>Bulk | GE<br>BP/Unit/Bulk | Lamp No.               | Primary Application                | Volts                       | Amps or<br>Watts | MSCP              | Bulb                | Base               | Filament<br>Design | LCL<br>(in) | MOL<br>(in) | Rated Life<br>(hrs) | Warning<br>& Footnotes |
|------------------------------------|-------------------|--------------------|------------------------|------------------------------------|-----------------------------|------------------|-------------------|---------------------|--------------------|--------------------|-------------|-------------|---------------------|------------------------|
| <b>MINIATURE LAMPS (CONTINUED)</b> |                   |                    |                        |                                    |                             |                  |                   |                     |                    |                    |             |             |                     |                        |
| 29897                              | //1000            | 6034BP             | Aircraft               | 28.0                               | .024A                       | .15              | T-1 $\frac{3}{4}$ | BiPin               | C-2F               | .64                | 5,000       |             |                     |                        |
| 29895                              | //1000            | 6034BPGPL          | Aircraft               | 28.0                               | .024A                       | .15              | T-1 $\frac{3}{4}$ | BiPin               | C-2F               | .64                | 5,000       |             |                     |                        |
| 87360                              | //1000            | 6832               | Aircraft               | 5.0                                | .06A                        | .05              | T-1               | Short Wire Terminal | C-2R               | .14                | 100,000     |             |                     |                        |
| 87351                              | //1000            | 6832AS15           | Aircraft               | 5.0                                | .06A                        | .05              | T-1               | Short Wire Terminal | C-2R               | .14                | 100,000     |             |                     |                        |
| 87291                              | //1000            | 6839               | Aircraft               | 28.0                               | .024A                       | .15              | T-1               | Sub-Midget Flanged  | CC-2F              | .36                | 16,000      |             |                     |                        |
| 29893                              | //1000            | 6839BPE            | Aircraft               | 28.0                               | .024A                       | .15              | T-1               | BiPin               | CC-2F              | .35                | 16,000      |             |                     |                        |
| 29894                              | //1000            | 6839BPGPL          | Aircraft               | 28.0                               | .024A                       | .15              | T-1               | BiPin               | CC-2F              | .35                | 16,000      |             |                     |                        |
| 87274                              | //1000            | 7132AS15           | Aircraft               | 5.0                                | .075A                       | .09              | T-1               | Short Wire Terminal | C-2R               | .14                | 40,000      |             |                     |                        |
| 87402                              | //1000            | 7152               | Aircraft               | 5.0                                | .115A                       | .15              | T-1               | Short Wire Terminal | C-2R               | .14                | 40,000      |             |                     |                        |
| 97548                              | //1000            | 7152AS15           | Aircraft               | 5.0                                | .115A                       | .15              | T-1               | Short Wire Terminal | C-2R               | .14                | 40,000      |             |                     |                        |
| 28926                              | /50/              | 7387               | Indicator              | 28.0                               | .04A                        | .3               | T-1 $\frac{3}{4}$ | BiPin M-23          | C-2F               | .50                | .61         | 7,000       | 79                  |                        |
| 26200                              | 48/               | 7440               | Auto Japanese Vehicles | 13.5                               | 1.85A                       | 37               | T-7               | Wedge / 103 x 16DQ  | C-6                | —                  | 1.75        | 300         |                     |                        |
| 26201                              | 10014             | 48/ /1000          | 7443                   | Auto Japanese Vehicles             | 13.5                        | 1.85A            | 35                | T-7                 | Wedge / 103 x 16DQ | C-6                | —           | 1.75        | 500                 |                        |
|                                    |                   |                    |                        |                                    | 13.5                        | .4A              | 3                 |                     | C-6                | —                  | 1.75        | 1,000       |                     |                        |
| 22432                              | 22389             | 14542              | 48/100/200             | 9003/HB2                           | Headlamp Type HB2/H4        | 12.8             | 67W               | 119                 | T-4 $\frac{3}{4}$  | P43T-38            | C-8         | 1.12        | 3.62                | 150 4, 306             |
|                                    |                   |                    |                        |                                    |                             | 12.8             | 60W               | 72                  |                    | C-8                |             |             |                     | 800                    |
| 45470                              |                   | 48/ /              | 9003SB                 | Headlamp. White Light.             | 12.8                        | 67W              | 119               | T-4 $\frac{3}{4}$   | P43T-38            | C-8                | 1.12        | 3.62        | 80 4, 306           |                        |
|                                    |                   |                    |                        |                                    |                             | 12.8             | 60W               | 72                  |                    | C-8                |             |             |                     | 150                    |
| 18508                              | 13382             | 18699              | 48/100/250             | 9004/HB1                           | Headlamp. Type HB1          | 12.8             | 65W               | 95                  | T-4 $\frac{3}{4}$  | Axial Prefocus     | C-6         | 1.75        | 4.17                | 150 4, 161, 306        |
|                                    |                   |                    |                        |                                    |                             | 12.8             | 45W               | 55                  |                    | C-6                |             |             |                     | 320                    |
| 27561                              |                   | 48/ /              | 9004HO                 | Headlamp. HB1.<br>Higher output.   | 12.8                        | 65W              | 95                | T-4 $\frac{3}{4}$   | Axial Prefocus     | C-6                | 1.75        | 4.17        | 150 4, 161, 306     |                        |
|                                    |                   |                    |                        |                                    |                             | 12.8             | 42W               | 56                  |                    | C-6                |             |             |                     | 640                    |
| 45471                              |                   | 48/ /              | 9004SB                 | Headlamp. HB1.<br>White Light.     | 12.8                        | 65W              | 95                | T-4 $\frac{3}{4}$   | Axial Prefocus     | C-6                | 1.75        | 4.17        | 40 4, 161, 306      |                        |
|                                    |                   |                    |                        |                                    |                             | 12.8             | 45W               | 56                  |                    | C-6                |             |             |                     | 200                    |
| 13993                              | 11249             | 20559              | 48/100/250             | 9004XL                             | Headlamp Long life. HB1     | 12.8             | 65W               | 95                  | T-4 $\frac{3}{4}$  | Axial Prefocus     | C-6         | 1.75        | 4.17                | 150 4, 161, 306        |
|                                    |                   |                    |                        |                                    |                             | 12.8             | 47W               | 55                  |                    | C-6                |             |             |                     | 850                    |
| 18509                              | 13384             | 14710              | 48/100/200             | 9005/HB3                           | Headlamp. High Beam.<br>HB3 | 12.8             | 65W               | 135                 | T-4                | Rt Angle Prefocus  | C-8         | 1.24        | 3.13                | 800 4, 306             |
| 45472                              |                   | 48/ /              | 9005SB                 | Headlamp. High.<br>White Light     | 12.8                        | 65W              | 135               | T-4                 | Rt Angle Prefocus  | C-8                | 1.24        | 3.13        | 150 4, 75, 306      |                        |
| 45866                              |                   | 48/ /              | 9005XSLL               | Headlamp. High. HB3A.              | 12.8                        | 65W              | 135               | T-4                 | Axial Prefocus     | C-8                | 1.24        | 3.13        | 700 4, 306          |                        |
| 18510                              | 13397             | 14711              | 48/100/200             | 9006/HB4                           | Headlamp, Low Beam.<br>HB4  | 12.8             | 55W               | 80                  | T-4                | Rt Angle Prefocus  | C-8         | 1.24        | 3.13                | 850 4, 306             |
| 47640                              |                   | 48/ /              | 9006HO                 | Headlamp. Low.<br>Higher Output    | 12.8                        | 55W              | 80                | T-4                 | Rt Angle Prefocus  | C-8                | 1.24        | 3.13        | 1000 4, 306         |                        |
| 45473                              |                   | 48/ /              | 9006SB                 | Headlamp. Low. HB4.<br>White Light | 12.8                        | 55W              | 80                | T-4                 | Rt Angle Prefocus  | C-8                | 1.24        | 3.13        | 320 4, 75, 306      |                        |
| 45868                              |                   | 48/ /              | 9006XSLL               | Headlamp, Low. HB4A.               | 12.8                        | 55W              | 80                | T-4                 | Axial Prefocus     | C-8                | 1.24        | 3.13        | 2,000 4, 306        |                        |
| 22388                              | 20551             | 48/100/            | 9007/HB5               | Headlamp High/Low.<br>Type HB5.    | 12.8                        | 65W              | 107               | T-4 $\frac{3}{4}$   | Axial Prefocus     | C-8                | 1.75        | 4.17        | 150 4, 161, 306     |                        |
|                                    |                   |                    |                        |                                    |                             | 12.8             | 55W               | 79                  |                    | C-8                |             |             |                     | 1,100                  |
| 47642                              |                   | 48/ /              | 9007HO                 | Headlamp High/Low.<br>High Output. | 12.8                        | 65W              | 107               | T-4 $\frac{3}{4}$   | Axial Prefocus     | C-8                | 1.75        | 4.17        | 150 4, 161, 306     |                        |
|                                    |                   |                    |                        |                                    |                             | 12.8             | 53W               | 80                  |                    | C-8                |             |             |                     | 320                    |
|                                    | 10209             | / /250             | 9007LL                 | Headlamp High/Low.<br>Long life    | 12.8                        | 65W              | 107               | T-4 $\frac{3}{4}$   | Axial Prefocus     | C-8                | 1.75        | 4.17        | 150 4, 161, 306     |                        |
|                                    |                   |                    |                        |                                    |                             | 12.8             | 55W               | 79                  |                    | C-8                |             |             |                     | 1,450                  |
| 45474                              |                   | 48/ /              | 9007SB                 | Headlamp High/Low.<br>White Light  | 12.8                        | 65W              | 107               | T-4 $\frac{3}{4}$   | Axial Prefocus     | C-8                | 1.75        | 4.17        | 110 4, 161, 306     |                        |
|                                    |                   |                    |                        |                                    |                             | 12.8             | 58W               | 80                  |                    | C-8                | 1.75        | 4.17        | 250                 |                        |
| 14776                              |                   | / /360             | 9011                   | Headlamp High. HIR1.<br>Infrared.  | 12.8                        | 65W              | 183               | T-3 $\frac{1}{4}$   | PX20D              | C-8                | 1.25        | 3.50        | 150 4, 306          |                        |
| 47327                              |                   | / /900             | 9011X HIR              | Headlamp High. Infrared.           | 12.8                        | 65W              | 183               | T-3 $\frac{1}{4}$   | PX20D              | C-8                | 1.25        | 3.50        | 150 4, 306          |                        |
| 41495                              |                   | / /360             | 9012<br>(HIR2)         | Headlamp Low. HIR2.<br>Infrared    | 12.8                        | 55W              | 135               | T-3 $\frac{1}{4}$   | PX 22D             | C-8                | 1.25        | 2.8         | 900 4, 306          |                        |
| 40843                              | 37735             | 48/ /200           | 9145 (H10)             | Auto Fog ECE H10                   | 12.8                        | 45W              | 65                | T-4                 | PY20D              | C-8                | 1.24        | 3.01        | 1,500 4, 306        |                        |
| 45591                              |                   | 48/ /              | 56110                  | Auto-Interior-12V 20W              | 13.2                        | 1.83A            | 40                | T-3                 | Miniature Bayonet  | C-2R               | .59         | 1.22        | 100 308             |                        |
| 47461                              |                   | 48/ /              | 58540                  | Auto-Interior-12V 5W               | 13.5                        | .37A             | 63                | T-3                 | Miniature Bayonet  | C-2R               | .59         | 1.22        | 240 308             |                        |



# Miniature & Sealed Beam Lamps

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| Blister                     | Order Code<br>Unit | Bulk      | Case Qty.<br>BP/Unit/Bulk | GE<br>Lamp No.                      | Primary Application                 | Volts         | Amps or<br>Watts | MSCP      | Bulb                   | Base              | Filament<br>Design | LCL<br>(in) | MOL<br>(in)  | Rated Life<br>(hrs) | Warning<br>& Footnotes |
|-----------------------------|--------------------|-----------|---------------------------|-------------------------------------|-------------------------------------|---------------|------------------|-----------|------------------------|-------------------|--------------------|-------------|--------------|---------------------|------------------------|
| MINIATURE LAMPS (CONTINUED) |                    |           |                           |                                     |                                     |               |                  |           |                        |                   |                    |             |              |                     |                        |
|                             | 26696              |           | /10/                      | A-103                               | Aircraft-Quartz Bulb-<br>Navigation | 28.0          | 50W              | 60        | T-3                    | Special           | CC-8               | —           | 1.87         | 1,000               | 304                    |
|                             | 12064              |           | /10/                      | B1A                                 | Neon Glow (NE-51)                   | 120           | 1/25W            |           | T-3¼                   | Miniature Bayonet |                    |             | 1.19         | 15,000              | 164                    |
|                             | 12065              |           | /10/                      | B2A                                 | Neon Glow (NE-51H)                  | 120           | 1/7W             |           | T-3¼                   | Miniature Bayonet |                    |             | 1.19         | 25,000              | 164                    |
|                             | 31675              |           | /10/                      | B7A                                 | Neon Glow (NE-45)                   | 120           | 1/4W             |           | T-4½                   | Candelabra Screw  |                    |             | 1.53         | 7,500               | 164                    |
| 23312                       |                    |           | 48/ /                     | C5W                                 | Auto. ECE C5W                       | 13.5          | .37A             | 3.6       | T-3½                   | SV8.5/8           |                    |             | 1.45         | 450                 |                        |
|                             | 16124              |           | / /144                    | D2R                                 | Low Beam Reflector<br>System        | 85            | 35W              | 114       | T-3                    | P32d-3            | —                  | 1.06        | 3.09         | 1,000               | 1, 2, 310              |
|                             | 15999              |           | / /144                    | D2S                                 | Low Beam Projector<br>System        | 85            | 35W              | 254       | T-3                    | P32d-2            | —                  | 1.06        | 3.09         | 1,000               | 1, 2, 310              |
| 25323                       |                    |           | 48/ /                     | DE3021                              | Dome & Courtesy                     | 14.0          | .24A             | 2         | T-2¼                   | SV7MM             |                    |             | 1.15         | 1,000               |                        |
| 12353                       |                    |           | 48/ /                     | DE3022                              | Dome & Courtesy                     | 13.0          | .38A             | 3         | T-2¼                   | SV7MM             |                    |             | 1.18         | 1,000               |                        |
| 12354                       | 12084              |           | 48/50/                    | DE3175                              | Dome & Courtesy                     | 13.0          | .77A             | 9.55      | T-3¼                   | SV8.5MM           |                    |             | 1.25         | 400                 |                        |
|                             | 12085              |           | /10/                      | DE3425                              | Dome & Courtesy                     | 13.0          | .77A             | 9.55      | T-4                    | SV8.5MM           |                    |             | 1.50         | 400                 |                        |
| 23324                       |                    |           | 48/ /                     | DE7576                              | Strip. Auto DIN 72601K              | 13.5          | .74A             | 9.8       | T-3½                   | SV8.5/8           |                    |             | 1.65         | 200                 |                        |
| 40336                       | 27328              | 32376     | 48/10/300                 | H1-55                               | Auto ECE. GE50310/1                 | 13.2          | 62W              | 123       | T-3½                   | P14.5S            | C-8                | 1.08        | 2.66         | 225                 | 308                    |
|                             | 27569              |           | /10/                      | H1-70/28V                           | Auto. ECE. GE50320/1                | 28.0          | 80W              | 151       | T-3½                   | P14.5S            | C-8                | 1.08        | 2.46         | 600                 | 308                    |
|                             | 27329              |           | /10/                      | H1-100                              | Off Road Auxiliary.<br>GE52140      | 13.2          | 100W             | 219       | T-3½                   | P14.5S            | C-8                | 1.08        | 2.66         | 100                 | 308                    |
|                             | 27330              |           | /10/                      | H2-55                               | Auto. GE50410                       | 13.2          | 62W              | 143       | T-3½                   | X511              | C-8                | .48         | 1.22         | 225                 | 308                    |
|                             | 23442              |           | / /400                    | H3-35                               | C.I.M. GE50390                      | 13.2          | 40W              | 60        | T-3½                   | PK22S             | C-6                | .71         | 1.65         | 200                 | 308                    |
| 12339                       | 27331              | 22132     | 48/10/400                 | H3-55                               | Auto ECE. GE50340                   | 13.2          | 62W              | 115       | T-3½                   | PK22S             | C-6                | .71         | 1.65         | 225                 | 308                    |
|                             | 23445              |           | / /400                    | H3-55HD                             | C.I.M. GE50340HD                    | 13.2          | 62W              | 111       | T-3½                   | PK22S             | C-6                | .71         | 1.65         | 600                 | 308                    |
|                             | 35044              |           | / /400                    | H3-55LL                             | Auto ECE GE50340LL.<br>Long Life    | 13.2          | 64W              | 106       | T-3½                   | PK22S             | C-6                | .71         | 1.65         | 2,000               | 308                    |
|                             | 23428              |           | / /400                    | H3-65/28V                           | C.I.M. GE52590HD                    | 28.0          | 66W              | 102       | T-3½                   | PK22S             | C-6                | .71         | 1.65         | 1,000               | 308                    |
|                             | 27332              | 23438     | /10/400                   | H3-70/28V                           | C.I.M. GE50350                      | 28.0          | 75W              | 135       | T-3½                   | PK22S             | CC-6               | .71         | 1.65         | 225                 | 308                    |
| 12341                       |                    |           | 48/ /                     | H3-100                              | Off Road Auxiliary.<br>GE52130      | 13.2          | 92W              | 187       | T-3½                   | PK22S             | C-6                | .71         | 1.65         | 100                 | 308                    |
| 18132                       | 27334              | 22133     | 48/10/200                 | H4-60/55                            | Auto. GE50440                       | 13.2<br>13.2  | 71W<br>66W       | 138<br>80 | T-5                    | P43T-38           | C-8<br>C-8         | 1.12        | 3.62         | 225<br>900          | 306                    |
|                             | 27342              | 30833     | /10/200                   | H4-75/<br>70/28V                    | Bus GE50450                         | 28.0<br>28.0  | 80W<br>73W       | 151<br>95 | T-5                    | P43T-38           | C-8<br>C-8         | 1.14        | 3.62         | 150<br>300          | 308                    |
| 26374                       | 35755              | 48/ /200  | H7-55                     | Auto ECE, DOT GE58520               | 13.2                                | 56.5W         | 115              | T-3½      | PX26D                  | C-8               | .98                | 2.36        | 500          | 308                 |                        |
|                             | 15765              | / /300    | H8                        | Auto ECE Fog                        | 13.2                                | 40W           | 64               | T-3½      | PGJ19-1                | C-8               | 1.06               | 2.63        | 400          | 2, 308              |                        |
|                             | 15827              | / /300    | H9                        | Auto ECE High Beam                  | 13.2                                | 65W           | 167              | T-3½      | PGJ19-5                | C-8               | 1.08               | 2.63        | 125          | 2, 308              |                        |
|                             | 15828              | / /300    | H11                       | Auto ECE Low Beam                   | 13.2                                | 55W           | 107              | T-3½      | PGJ19-2                | C-8               | 1.07               | 2.63        | 550          | 2, 308              |                        |
|                             | 15963              | / /300    | H11LL                     | Auto ECE Low Beam                   | 13.2                                | 55W           | 107              | T-3½      | PGJ19-2                | C-8               | 1.07               | 2.63        | 1,400        | 4, 308              |                        |
| 22961                       |                    | 48/ /     | KPR102                    | Flashlight – 2D Krypton             | 2.4                                 | .70A          | 1.3              | B-3½      | S.C. Miniature Flanged | C-2R              | .25                | 1.25        | 15           | 116                 |                        |
| 23151                       |                    | 48/ /     | KPR104                    | Flashlight – 2D Krypton             | 2.2                                 | .47A          | .47              | B-3½      | S.C. Miniature Flanged | C-2R              | .25                | 1.25        | 15           | 116                 |                        |
| 23153                       |                    | 48/ /     | KPR113                    | Flashlight – 4D Krypton             | 4.8                                 | .75A          | 4.1              | B-3½      | S.C. Miniature Flanged | C-2R              | .25                | 1.25        | 20           | 116                 |                        |
| 23154                       |                    | 48/ /     | KPR118                    | Flashlight – 6D Krypton             | 7.2                                 | .55A          | 5.2              | B-3½      | S.C. Miniature Flanged | C-2R              | .25                | 1.25        | 15           | 116                 |                        |
|                             | 12571              |           | /48/                      | ML20/<br>OF-28                      | Aircraft. Lumiline.<br>Frosted      | 28.0          | 20W              | —         | T-8                    | Disk              | 2C-8               | —           | 5.75         | 500                 | 12                     |
| 23306                       | 11601              | 48/ /1000 | P21W                      | Auto Stop. (ECE). P25-1.            | 13.5                                | 1.85A         | 36.6             | S-8       | S.C. Bayonet           | C-6               | 1.25               | 2.0         | 250          |                     |                        |
|                             | 38655              | / /1000   | P21W LL                   | Auto Stop (ECE). Long Life          | 13.5                                | 1.85A         | 36.6             | S-8       | S.C. Bayonet           | C-6               | 1.25               | 2.0         | 300          |                     |                        |
| 27561                       | 30857              | 48/ /1000 | P21/4W                    | Auto Stop, Signal.<br>(ECE)         | 13.5<br>13.5                        | 1.85A<br>.37A | 35<br>1.19       | S-8       | D.C. Index             | C-6<br>C-6        | 1.25               | 2.0         | 100<br>100   |                     |                        |
| 23303                       | 11604              | 48/ /1000 | P21/5W                    | Auto Stop, Signal. (ECE).<br>P25-2. | 13.5<br>13.5                        | 1.85A<br>.44A | 35<br>2.78       | S-8       | D.C. Index             | C-6<br>C-6        | 1.25               | 2.0         | 250<br>1,000 |                     |                        |
|                             | 92475              | / /1000   | P21/5W<br>LL              | Auto Stop, Signal.<br>Long Life     | 13.5<br>13.5                        | 1.85A<br>.44A | 35<br>2.78       | S-8       | D.C. Index             | C-6<br>C-6        | 1.25<br>1.25       | 2.0<br>2.0  | 600<br>3,000 |                     |                        |
|                             | 40778              |           | /10/                      | P21W 24V                            | Bus Stop-European (ECE)             | 28.0          | 1.00A            | 36.6      | S-8                    | S.C. Bayonet      | C-6                | 1.25        | 2.0          | 150                 |                        |

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## Miniature & Sealed Beam Lamps

| Order Code<br>Blister Unit         | Case Qty.<br>Bulk | GE<br>BP/Unit/Bulk | Lamp No.                 | Primary Application | Volts         | Amps or<br>Watts | MSCP | Bulb                   | Base       | Filament<br>Design | LCL<br>(in) | MOL<br>(in)  | Rated Life<br>(hrs) | Warning<br>& Footnotes |
|------------------------------------|-------------------|--------------------|--------------------------|---------------------|---------------|------------------|------|------------------------|------------|--------------------|-------------|--------------|---------------------|------------------------|
| <b>MINIATURE LAMPS (CONTINUED)</b> |                   |                    |                          |                     |               |                  |      |                        |            |                    |             |              |                     |                        |
| 30856                              | / /1000           | P21/5W             | Bus Stop /Tail. (ECE)    | 28.0<br>28.0        | 1.00A<br>.36A | 35<br>3.18       | S-8  | D.C. Index             | C-6<br>C-6 | 1.25<br>1.25       | 2.0         | 150<br>1,500 |                     |                        |
| 23036                              | / /1000           | PC161              | Auto Instrument          | 14.0                | .19A          | 1                | T-3¼ | Printed Circuit Socket | C-2F       | .45                | 1.11        | 4,000        |                     |                        |
| 27222                              | 23037 /10/1000    | PC168              | Auto Instrument          | 14.0                | .35A          | 3                | T-3¼ | Printed Circuit Socket | C-2F       | .45                | 1.11        | 1,500        |                     |                        |
| 72221                              | 23021 /10/1000    | PC194              | Auto Inst. & Ind., H.D.  | 14.0                | .27A          | 2                | T-3¼ | Printed Circuit Socket | C-2F       | .45                | 1.11        | 2,500        |                     |                        |
| 12675                              | 25181 48/50/      | PR2                | Flashlight – 2D Cells    | 2.38                | .50A          | .8               | B-3½ | S.C. Miniature Flanged | C-2R       | .25                | 1.25        | 15           | 116                 |                        |
| 12676                              | 25193 48/50/      | PR3                | Flashlight – 3D Cells    | 3.57                | .50A          | 1.5              | B-3½ | S.C. Miniature Flanged | C-2R       | .25                | 1.25        | 15           | 116                 |                        |
| 12677                              | 48/ /             | PR4                | Flashlight – 2C Cells    | 2.33                | .27A          | .4               | B-3½ | S.C. Miniature Flanged | C-2R       | .25                | 1.25        | 10           | 116                 |                        |
| 25222                              | /50/              | PR6                | Flashlight – 2D Cells    | 2.47                | .30A          | .45              | B-3½ | S.C. Miniature Flanged | C-2R       | .25                | 1.25        | 30           | 116                 |                        |
| 25235                              | /50/              | PR7                | Flashlight – 3D Cells    | 3.70                | .30A          | .9               | B-3½ | S.C. Miniature Flanged | C-2R       | .25                | 1.25        | 30           | 116                 |                        |
| 12680                              | 25252 48/50/      | PR12               | Flashlight – 5D Cells    | 5.95                | .50A          | 3.1              | B-3½ | S.C. Miniature Flanged | C-2R       | .25                | 1.25        | 15           | 116                 |                        |
| 12681                              | 25262 48/50/      | PR13               | Lantern – 4F Cells       | 4.75                | .50A          | 2.2              | B-3½ | S.C. Miniature Flanged | C-2R       | .25                | 1.25        | 15           | 116                 |                        |
| 25289                              | /50/              | PR18               | Flashlight – 6D Cells    | 7.20                | .55A          | 5.5              | B-3½ | S.C. Miniature Flanged | C-2R       | .25                | 1.25        | 3            | 14, 116             |                        |
| 41370                              | 32648 48/ /500    | PY21W              | Auto Stop. (ECE) – Amber | 13.5                | 1.85A         | 22.3             | S-8  | S.C. Bayonet           | C-6        | 1.25               | 2.0         | 250          |                     |                        |
| 23314                              | 30859 48/ /2000   | R5W LL             | Auto. ECE R5W GE 2619    | 13.5                | 5W            | 4.0              | G-6  | S.C. Bayonet           | C-2R       | .75                | 1.47        | 500          |                     |                        |
| 23322                              | 35417 48/ /2000   | R10W LL            | Auto. ECE R10W GE 2641   | 13.5                | 10W           | 10.0             | G-6  | S.C. Bayonet           | C-2R       | .75                | 1.47        | 400          |                     |                        |
| 23318                              | 48/ /             | T4W                | Auto. ECE T4W GE 2662    | 13.5                | .30A          | 2.8              | T-2¾ | Miniature Bayonet      | C-2R       | .59                | 1.08        | 450          |                     |                        |
| 12756                              | /50/              | TEL/6PSB           | Indicator                | 6.0                 | .14A          | 550              | T-2  | Tel. Slide #5          | C-2V       |                    | 1.11        | 20,000       | 80                  |                        |
| 12760                              | /50/              | TEL/12PSB          | Indicator                | 12.0                | .17A          | 2,000            | T-2  | Tel. Slide #5          | C-2F       |                    | 1.11        | 12,000       | 80                  |                        |
| 29001                              | /50/              | TEL/24E2           | Telephone                | 24.0                | .035A         | 600              | T-2  | Tel. Slide #3          | C-2F       |                    | 1.69        | 7,000        | 80                  |                        |
| 12071                              | /50/              | TEL/24PSB          | Indicator                | 24.0                | .073A         | 3,000            | T-2  | Tel. Slide #5          | C-2F       |                    | 1.11        | 10,000       | 80                  |                        |
| 12761                              | /50/              | TEL/28MB           | Indicator                | 28.0                | .04A          | .29              | T-2½ | Miniature Bayonet      | C-2F       | –                  | 1.19        | 5,000        |                     |                        |
| 12072                              | /50/              | TEL/28PSB          | Indicator                | 28.0                | .04A          | 1,600            | T-2  | Tel. Slide #5          | C-2F       |                    | 1.11        | 5,000        | 80                  |                        |
| 29041                              | /50/              | TEL/48C2           | Telephone                | 48.0                | .035A         | 750              | T-2  | Tel. Slide #3          | C-2F       |                    | 1.69        | 5,000        | 80                  |                        |
| 12075                              | /50/              | TEL/48PSB          | Indicator                | 48.0                | .05A          | 1,800            | T-2  | Tel. Slide #5          | C-7A       |                    | 1.11        | 10,000       | 80                  |                        |
| 12076                              | /50/              | TEL/60MB           | Indicator                | 60.0                | .05A          | .73              | T-2½ | Miniature Bayonet      | C-7A       | –                  | 1.19        | 7,500        |                     |                        |
| 12077                              | /50/              | TEL/60PSB          | Indicator                | 60.0                | .05A          | 1,800            | T-2  | Tel. Slide #5          | C-7A       |                    | 1.11        | 7,500        | 80                  |                        |
| 12078                              | /50/              | TEL/120MB          | Indicator                | 120.0               | .025A         | .36              | T-2½ | Miniature Bayonet      | CC-7A      | –                  | 1.19        | 7,500        |                     |                        |
| 12080                              | /50/              | TEL/120PSB         | Indicator                | 120.0               | .025A         | 1,000            | T-2  | Tel. Slide #5          | CC-7A      |                    | 1.11        | 7,500        | 80                  |                        |
| 27562                              | 35030 48/ /2000   | W3W                | Auto-European ECE        | 13.5                | 3W            | 1.75             | T-3¼ | Wedge                  | C-2V       | .5                 | 1.06        | 1,000        | 13                  |                        |
| 27563                              | 37640 48/ /2000   | W5W                | Auto-European ECE        | 13.5                | 5W            | 4                | T-3¼ | Wedge                  | C-2V       | .5                 | 1.06        | 300          | 13                  |                        |
| 26353                              | / /1000           | W16W               | Auto ECEW16W             | 13.5                | 1.44A         | 24.6             | T-5  | Wedge                  | C-2F       | .81                | 1.49        | 250          | 121                 |                        |



## Miniature & Sealed Beam Lamps

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| Order Code Unit    | Case Qty. Bulk | GE Unit/Bulk | Lamp No. | Bulb                        | Primary Application       | Design Volts   | Design Watts | MBCP                | Base              | MOL (in) | Rated Life (hrs) | Spread to 10% Horiz | MBCP Warning Vert | Notes    |
|--------------------|----------------|--------------|----------|-----------------------------|---------------------------|----------------|--------------|---------------------|-------------------|----------|------------------|---------------------|-------------------|----------|
| <b>SEALED BEAM</b> |                |              |          |                             |                           |                |              |                     |                   |          |                  |                     |                   |          |
| 18511              | 6              | 4000         | PAR46    | Headlamp, Low Beam Type 2C1 | 12.8                      | 37.5W 12.8 60W | SAE          | 3 Contact Lugs      | 4                 | 200 320  |                  |                     | 4                 |          |
| 24327              | 12             | 4013         | PAR46    | Tractor, Flood              | 6.4                       | 25W            | 800          | Screw Terminals     | 3.75              | 300      | 80               | 20                  |                   |          |
| 24339              | 24338          | 12/60        | 4014     | PAR36                       | Emergency Bldg. Lighting  | 6.4            | 18W          | 1,500               | Screw Terminals   | 2.75     | 200              | 50                  | 25                |          |
| 24369              | 12             | 4019         | PAR46    | Tractor                     | 6.2                       | 30W            | 1,200        | Screw Terminals     | 3.75              | 300      | Trapezoidal      |                     | 23                |          |
| 38418              | 12             | 4040         | PAR46    | Headlamp, Low. Type 2C1     | 12.8                      | 37.5W 12.8 60W | SAE          | 3 Contact Lugs      | 4                 | 300 500  |                  |                     | 4                 |          |
| 39585              | 39586          | 12/60        | 4042     | PAR36                       | Emergency Bldg. Lighting  | 6.4            | 12W          | 1,100               | Screw Terminals   | 2.75     | 150              | 45                  | 20                |          |
| 40588              | 40589          | 12/60        | 4044     | PAR36                       | Emergency Bldg. Lighting  | 12.0           | 12W          | 1,100               | Screw Terminals   | 2.75     | 150              | 50                  | 25                |          |
| 10540              | 10541          | 12/60        | 4044-1   | PAR36                       | Emergency Bldg. Lighting  | 12.0           | 12W          | 1,100               | Slip-on Terminals | 2.75     | 150              | 50                  | 25                |          |
| 25051              | 12             | 4313         | PAR36    | Aircraft Landing            | 13.0                      | 250W           | 140,000      | Screw Terminals     | 2.75              | 25       | 16               | 7                   | 302               |          |
| 39366              | 39367          | 12/60        | 4340     | PAR36                       | Electric Truck Work Light | 48.0           | 80W          | 2,500               | Slip-on Terminals | 2.75     | 400              | Trapezoidal         |                   | 15       |
| 39362              | 39363          | 12/60        | 4350     | PAR36                       | Electric Truck Work Light | 36.0           | 60W          | 2,100               | Slip-on Terminals | 2.75     | 400              | Trapezoidal         |                   | 15       |
| 12961              | 12             | 4402A        | PAR36    | CIM Signal                  | 28.0                      | 50W            | 1,000        | Screw Terminals     | 2.75              | 400      | 50               | 25                  |                   |          |
| 24425              | 24423          | 12/60        | 4405     | PAR36                       | Spotlight                 | 12.8           | 30W          | 50,000              | Screw Terminals   | 2.75     | 100              | 6                   | 5                 | 167      |
| 24430              | 24428          | 12/60        | 4406     | PAR36                       | Tractor, Flood            | 12.8           | 35W          | 600                 | Screw Terminals   | 2.75     | 300              | 80                  | 30                | 4        |
| 24439              | 12             | 4410         | PAR36    | Backup Lamp, Tractor Flood  | 12.8                      | 35W            | 600          | Screw Terminals     | 2.75              | 300      | 80               | 30                  | 4                 |          |
| 24448              | 24443          | 12/60        | 4411     | PAR36                       | Tractor                   | 12.8           | 35W          | 3,000               | Screw Terminals   | 2.75     | 300              | Trapezoidal         |                   | 4        |
| 37889              | 37890          | 12/60        | 4411-1   | PAR36                       | Tractor                   | 12.8           | 35W          | 3,000               | Slip-on Terminals | 2.75     | 300              | Trapezoidal         |                   | 4        |
|                    | 48032          | 60           | 4411-3   | PAR36                       | Tractor                   | 12.8           | 35W          | 3,000               | Combination       | 2.75     | 300              | Trapezoidal         |                   | 4        |
| 24454              | 24453          | 12/24        | 4412     | PAR46                       | Fog                       | 12.8           | 35W          | 11,000              | Screw Terminals   | 3.75     | 300              | 40                  | 7                 | 167      |
| 24460              | 24459          | 12/24        | 4412A    | PAR46                       | Fog, Yellow               | 12.8           | 35W          | 8,800               | Screw Terminals   | 3.75     | 300              | 40                  | 7                 | 167      |
| 22981              | 24464          | 12/24        | 4413     | PAR46                       | Tractor, Flood            | 12.8           | 35W          | 1,100               | Screw Terminals   | 3.75     | 300              | 80                  | 20                | 4        |
| 24478              | 24477          | 12/60        | 4414     | PAR36                       | Warning Signal, Garden    | 12.8           | 18W          | 1,500               | Screw Terminals   | 2.75     | 300              | 50                  | 25                |          |
| 24487              | 12             | 4414R        | PAR36    | Warning Signal Red Lens     | 12.8                      | 18W            | 275          | Screw Terminals     | 2.75              | 300      | 50               | 25                  |                   |          |
| 22982              | 24490          | 12/60        | 4415     | PAR36                       | Fog                       | 12.8           | 35W          | 9,000               | Screw Terminals   | 2.75     | 300              | 40                  | 5                 | 167      |
| 24499              | 24497          | 12/60        | 4415A    | PAR36                       | Fog, Yellow Lens          | 12.8           | 35W          | 7,000               | Screw Terminals   | 2.75     | 300              | 40                  | 5                 | 167      |
| 22983              | 24503          | 12/60        | 4416     | PAR36                       | Spotlamp, Signal          | 12.8           | 30W          | 35,000              | Screw Terminals   | 2.75     | 300              | 11                  | 4                 |          |
|                    | 34901          | 12/60        | 4416-1   | PAR36                       | Spotlamp, Signal          | 12.8           | 30W          | 35,000              | Slip-on Terminals | 2.75     | 300              | 11                  | 4                 |          |
| 24506              | 12             | 4416A        | PAR36    | Signal, Yellow Lens Cover   | 12.8                      | 30W            | 26,000       | Screw Terminals     | 2.75              | 300      | 11               | 4                   |                   |          |
| 24513              | 12             | 4416R        | PAR36    | Signal, Red Lens Cover      | 12.8                      | 30W            | 4,000        | Screw Terminals     | 2.75              | 300      | 11               | 4                   |                   |          |
| 24531              | 24525          | 12/24        | 4419     | PAR46                       | Tractor                   | 12.8           | 35W          | 1,600               | Screw Terminals   | 3.75     | 300              | Trapezoidal         |                   | 4        |
| 24539              | 24541          | 12/24        | 4421     | PAR46                       | Auto/Truck, Special       | 13.0           | 100W         | 23,000              | Slip-on Terminals | 3.75     | 300              | 50                  | 7                 | 109, 167 |
| 24542              | 12             | 4422         | PAR36    | Tractor                     | 12.8                      | 35W            | 600          | Screw Terminals     | 2.75              | 300      | 75° Cone         |                     | 4                 |          |
| 24572              | 12             | 4434A        | PAR46    | Bus Signal, Amber Lens      | 12.8                      | 40W            | 1,000        | Screw Terminals     | 3.75              | 100      | 55               | 25                  |                   |          |
| 24577              | 24576          | 12/24        | 4435     | PAR46                       | Spotlamp                  | 12.8           | 30W          | 75,000              | Screw Terminals   | 3.75     | 100              | 5                   | 5                 | 167      |
| 24582              | 12             | 4436         | PAR46    | Signal                      | 12.8                      | 35W            | 60,000       | Screw Terminals     | 3.75              | 300      | 10               | 4                   |                   |          |
| 39932              | 39933          | 12/60        | 4440X    | PAR36                       | Tractor                   | 12.8           | 40W 12.8 40W | 6,000 4,500         | 3 Contact Lugs    | 3        | 320 320          | 40 33               | 7 9               | 4        |
| 39748              | 12             | 4440X-1      | PAR36    | Tractor                     | 12.8                      | 40W 12.8 40W   | 6,000 4,500  | 3 Slip-on Terminals | 2.75              | 320 320  | 40 33            | 7 9                 | 4                 |          |
| 37046              | 37047          | 12/60        | 4446     | PAR36                       | Emergency Bldg. Lighting  | 12.8           | 25W          | 400                 | Screw Terminals   | 2.75     | 300              | 80                  | 80                |          |
| 40176              | 12             | 4460X        | PAR36    | Tractor                     | 12.8                      | 40W 12.8 40W   | 6,500 5,000  | 3 Screw Terminals   | 2.75              | 320 320  | 22 22            | 10 13               | 4                 |          |
| 24592              | 12             | 4461         | PAR36    | Tractor                     | 12.8                      | 60W            | 6,000        | Screw Terminals     | 2.75              | 300      | Trapezoidal      |                     | 4                 |          |
| 24596              | 12             | 4466         | PAR36    | Tractor                     | 12.8                      | 60W            | 1,000        | Screw Terminals     | 2.75              | 300      | 80               | 30                  | 4                 |          |
| 24613              | 12             | 4478         | PAR46    | C.I.M. Flood                | 13.0                      | 60W            | 1,600        | 2 Contact Lugs      | 4                 | 800      | 56               | 32                  | 4                 |          |
| 24627              | 12             | 4502         | PAR36    | Auto Headlamp, Military     | 28.0                      | 50W            | 10,000       | Screw Terminals     | 2.75              | 400      | 40               | 7                   |                   |          |
| 24640              | 24638          | 12/60        | 4505     | PAR36                       | Aircraft Navigation       | 28.0           | 50W          | 45,000              | Screw Terminals   | 2.75     | 400              | 11                  | 5                 |          |
| 24650              | 24649          | 12/60        | 4509     | PAR36                       | Aircraft Landing Spotlamp | 13.0           | 100W         | 110,000             | Screw Terminals   | 2.75     | 25               | 12                  | 6                 | 167      |
| 41503              | 12             | 4509X        | PAR36    | Marine Spotlamp             | 13.0                      | 100W           | 110,000      | Screw Terminals     | 2.75              | 25       | 12               | 6                   | 167               |          |

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## Miniature & Sealed Beam Lamps

| Order Code Unit                | Case Qty. Bulk | GE Unit/Bulk | Lamp No. | Bulb                      | Primary Application            | Design Volts | Design Watts | MBCP              | Base              | MOL (in) | Rated Life (hrs) | Spread to 10% Horiz | MBCP Warning Vert & Footnotes |
|--------------------------------|----------------|--------------|----------|---------------------------|--------------------------------|--------------|--------------|-------------------|-------------------|----------|------------------|---------------------|-------------------------------|
| <b>SEALED BEAM (CONTINUED)</b> |                |              |          |                           |                                |              |              |                   |                   |          |                  |                     |                               |
| 11524                          | 12             | 4509Y        | PAR36    | Special Service           | 13.0                           | 100W         | —            | Screw Terminals   | 2.75              | 25       | 12               | 6                   |                               |
| 24654                          | 24653          | 12/60        | 4510     | PAR36                     | Tractor Flood, Emergency       | 6.4          | 25W          | 800               | Screw Terminals   | 2.75     | 300              | 80                  | 20                            |
| 24663                          | 24661          | 12/60        | 4511     | PAR36                     | Tractor                        | 6.2          | 30W          | 2,300             | Screw Terminals   | 2.75     | 300              | Trapezoidal         | 23                            |
| 24673                          | 24671          | 12/60        | 4515     | PAR36                     | Spotlamp                       | 6.4          | 30W          | 55,000            | Screw Terminals   | 2.75     | 100              | 5                   | 5 167                         |
| 24678                          | 12             | 4516         | PAR36    | Spotlamp                  | 6.2                            | 30W          | 45,000       | Screw Terminals   | 2.75              | 300      | 9                | 4                   |                               |
| 24690                          | 12             | 4519         | PAR36    | Marine                    | 13.0                           | 100W         | 30,000       | Screw Terminals   | 2.75              | 25       | 40               | 7                   |                               |
| 24700                          | 12             | 4522         | PAR46    | Aircraft Landing          | 13.0                           | 250W         | 290,000      | Screw Terminals   | 3.13              | 25       | 12               | 10                  | 92, 138, 167                  |
| 24721                          | 12             | 4530         | PAR46    | Signal, Flashing          | 26.0                           | 5.3A         | 100,000      | Screw Terminals   | 3.75              | 50       | 11               | 11                  |                               |
| 24726                          | 12             | 4531         | PAR46    | Auto Headlamp, Military   | 12.5                           | 40W          | 30,000       | Screw Terminals   | 3.75              | 400      | 20               | 5                   |                               |
| 19628                          | 12             | 4532         | PAR46    | Aircraft                  | 28.0                           | 250W         | 75M          | Screw Terminals   | 3.75              | 100      | 12               | 19                  |                               |
|                                |                |              |          |                           | 28.0                           | 150W         | 14,500       |                   |                   | 100      | 16               | 19                  |                               |
| 24735                          | 24733          | 12/24        | 4535     | PAR46                     | Spotlamp                       | 6.4          | 30W          | 95,000            | Screw Terminals   | 3.75     | 100              | 5½                  | 4 167                         |
| 24742                          | 12             | 4537         | PAR46    | Aircraft Landing          | 13.0                           | 100W         | 200,000      | Screw Terminals   | 3.13              | 25       | 11               | 6                   | 167                           |
| 40822                          | 40823          | 12/24        | 4537-2   | PAR46                     | Spotlamp                       | 13.0         | 100W         | 200,000           | Screw Terminals   | 3.13     | 25               | 11                  | 6                             |
| 39022                          | 12             | 4537X        | PAR46    | Marine Spotlamp           | 13.0                           | 100W         | 200,000      | Screw Terminals   | 3.13              | 25       | 11               | 6                   | 167                           |
| 24756                          | 12             | 4541         | PAR56    | Aircraft Landing          | 28.0                           | 450W         | 470,000      | Screw Terminals   | 4.5               | 25       | 15               | 11                  | 167, 302                      |
| 24764                          | 12             | 4543         | PAR56    | Marine Spotlamp           | 12.5                           | 100W         | 250,000      | Screw Terminals   | 4.5               | 50       | 9                | 5                   |                               |
| 24768                          | 12             | 4545         | PAR56    | Marine Searchlight        | 12.0                           | 100W         | 225,000      | Screw Terminals   | 4.5               | 100      | 9                | 5                   | 167                           |
| 24780                          | 24783          | 12/60        | 4546     | PAR36                     | Hand Lantern                   | 4.7          | .5A          | 6,300             | Screw Terminals   | 2.75     | 100              | 3                   | 3                             |
| 24770                          | 24775          | 12/60        | 4546-1   | PAR36                     | Hand Lantern                   | 4.7          | .5A          | 6,300             | Slip-on Terminals | 2.75     | 100              | 3                   | 3                             |
| 24788                          | 12             | 4547         | PAR36    | Hand Lantern              | 4.75                           | 1.25A        | 20,000       | Screw Terminals   | 2.75              | 100      | 3                | 3                   |                               |
| 24795                          | 12             | 4551         | PAR46    | Aircraft Taxiing          | 28.0                           | 250W         | 75,000       | Screw Terminals   | 3.75              | 25       | 50               | 10                  | 138                           |
| 40576                          | 12             | 4552         | PAR64    | Aircraft Landing          | 28.0                           | 250W         | 500,000      | Screw Terminals   | 3.75              | 25       | 7                | 8                   | 138, 167                      |
| 24799                          | 12             | 4553         | PAR46    | Aircraft Landing          | 28.0                           | 250W         | 300,000      | Screw Terminals   | 3.13              | 25       | 11               | 12                  | 138, 167                      |
| 24802                          | 12             | 4554         | PAR46    | Aircraft Taxiing          | 28.0                           | 450W         | 90,000       | Screw Terminals   | 3.13              | 25       | 50               | 16                  | 302                           |
| 40583                          | 12             | 4555         | PAR64    | Aircraft Landing          | 115.0                          | 1,000W       | 600,000      | Screw Terminals   | 3.75              | 25       | 20               | 11                  | 138, 302                      |
| 40581                          | 12             | 4557         | PAR64    | Aircraft Landing/Taxiing  | 28.0                           | 1,000W       | 540M         | 3 Screw Terminals | 3.75              | 25       | 11               | 15                  | 138, 302                      |
|                                |                |              |          |                           | 28.0                           | 400W         | 100M         |                   |                   | 100      | 25               | 11                  |                               |
| 40578                          | 12             | 4559         | PAR64    | Aircraft Landing          | 28.0                           | 600W         | 600,000      | Screw Terminals   | 3.75              | 25       | 11               | 12                  | 138, 167                      |
| 24828                          | 12             | 4570         | PAR46    | Aircraft Taxiing          | 28.0                           | 150W         | 32,000       | Screw Terminals   | 3.75              | 300      | 50               | 9                   |                               |
| 24830                          | 12             | 4571         | PAR46    | Flood, Special Service    | 28.0                           | 150W         | 7,000        | Screw Terminals   | 3.75              | 300      | 80               | 25                  |                               |
| 24833                          | 12             | 4572         | PAR46    | Auto Flood, Military      | 28.0                           | 150W         | 4,500        | Screw Terminals   | 3.75              | 300      | 55               | 55                  |                               |
| 25005                          | 25007          | 12/24        | 4578     | PAR46                     | C.I.M. Flood                   | 28.0         | 60W          | 1,600             | 2 Contact Lugs    | 4        | 800              | 55                  | 30                            |
| 25009                          | 25011          | 12/24        | 4579     | PAR46                     | C.I.M. Headlamp                | 28.0         | 80W          | 24M               | 3 Contact Lugs    | 4        | 400              | 25                  | 25                            |
|                                |                |              |          |                           | 28.0                           | 60W          | 11M          |                   |                   | 400      | 7                | 7                   |                               |
| 24859                          | 12             | 4580         | PAR46    | Aircraft Landing          | 28.0                           | 450W         | 400,000      | Screw Terminals   | 3.75              | 10       | 13               | 14                  | 302                           |
| 24862                          | 12             | 4581         | PAR46    | Aircraft Landing          | 28.0                           | 450W         | 400,000      | Screw Terminals   | 3.13              | 10       | 13               | 14                  | 302                           |
| 24853                          | 12             | 4582         | PAR46    | Aircraft/Helicopter Flood | 28.0                           | 450W         | 20,000       | Screw Terminals   | 3.75              | 10       | 50               | 55                  | 302                           |
| 24867                          | 12             | 4587         | PAR36    | Aircraft Taxiing          | 28.0                           | 250W         | 40,000       | Screw Terminals   | 2.75              | 25       | 40               | 13                  | 302                           |
| 24873                          | 24871          | 12/60        | 4589     | PAR36                     | Aircraft Cockpit Flood, C.I.M. | 28.0         | 50W          | 5,000             | Screw Terminals   | 2.75     | 400              | Trapezoidal         |                               |
|                                | 23509          | 60           | 4589-1   | PAR36                     | Aircraft Cockpit Flood, C.I.M. | 28.0         | 50W          | 5,000             | Slip-on Terminals | 2.75     | 400              | Trapezoidal         |                               |
| 24882                          | 12             | 4591         | PAR36    | Aircraft Landing          | 28.0                           | 100W         | 90,000       | Screw Terminals   | 2.75              | 25       | 12               | 6                   |                               |
| 24887                          | 12             | 4593         | PAR36    | Aircraft In-Air Refueling | 28.0                           | 50W          | 1,500        | Screw Terminals   | 2.75              | 400      | 80               | 30                  |                               |
| 24891                          | 12             | 4594         | PAR36    | Aircraft Navigation       | 28.0                           | 100W         | 70,000       | Screw Terminals   | 2.75              | 300      | 13               | 7                   |                               |
| 24892                          | 12             | 4595         | PAR36    | Aircraft Navigation       | 28.0                           | 100W         | 60,000       | Screw Terminals   | 2.75              | 300      | 14               | 6                   |                               |
| 24898                          | 12             | 4596         | PAR36    | Aircraft Landing          | 28.0                           | 250W         | 150,000      | Screw Terminals   | 2.75              | 25       | 11               | 12                  | 302                           |
| 24964                          | 12             | 4626         | PAR36    | Aircraft Taxiing          | 28.0                           | 150W         | 25,000       | Screw Terminals   | 2.75              | 300      | 40               | 9                   |                               |
| 24966                          | 12             | 4627         | PAR36    | Aircraft Flood            | 28.0                           | 100W         | 3,000        | Screw Terminals   | 2.75              | 300      | 80               | 30                  |                               |
| 33284                          | 12             | 4635         | PAR46    | Aircraft Landing          | 16.5                           | 450W         | 325,000      | Screw Terminals   | 3.75              | 25       | 14               | 15                  | 302                           |
| 19632                          | 16407          | 12/672       | 4636-3   | PAR46                     | Signal                         | 14.0         | 80W          | 90,000            | Combination       | 3.75     | 200              | 9                   | 7½                            |



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| Order Code Unit                | Case Qty. Bulk | GE Unit/Bulk | Lamp No. | Bulb  | Primary Application             | Design Volts  | Design Watts   | MBCP    | Base               | MOL (in) | Rated Life (hrs) | Spread to 10% MBCP Horiz | Vert     | Warning & Footnotes |
|--------------------------------|----------------|--------------|----------|-------|---------------------------------|---------------|----------------|---------|--------------------|----------|------------------|--------------------------|----------|---------------------|
| <b>SEALED BEAM (CONTINUED)</b> |                |              |          |       |                                 |               |                |         |                    |          |                  |                          |          |                     |
| 18517                          | 41861          | 6/576        | 4651     | 165mm | Headlamp, High Beam, 1A1        | 12.8          | 50W            | SAE     | 2 Contact Lugs     | 4.8      | 200              |                          |          | 4, 307              |
| 18518                          |                | 6            | 4652     | 165mm | Headlamp, Low Beam, 2A1         | 12.8          | 40W<br>60W     | SAE     | 3 Contact Lugs     | 4.8      | 200<br>320       |                          |          | 4, 307              |
| 39906                          | 39907          | 12/60        | 4700     | PAR36 | Spot/Flood                      | 113.0<br>13.0 | 100W<br>100W   | 100M    | 3 Screw Terminals  | 2.75     | 25<br>255        | 12<br>17                 | 7<br>18  |                     |
| 45427                          |                | 12           | 4713     | PAR36 | Aircraft Logo                   | 28.0          | 150W           | 4,200   | Screw Terminals    | 2.75     | 300              | 50                       | 65       |                     |
| 44724                          |                | 12           | 4752     | PAR36 | C.I.M. Flood                    | 28.0          | 60W            | 2,000   | Screw Terminals    | 2.75     | 800              | 50                       | 25       |                     |
| 24973                          |                | 12           | 4800     | PAR56 | Auto Headlamp, Military         | 28.0<br>28.0  | 50W<br>40W     | SAE     | 3 Contact Lugs     | 5        | 400<br>400       |                          |          |                     |
| 24980                          |                | 12           | 4811     | PAR36 | Auto Headlamp, Military         | 28.0<br>28.0  | 110W<br>55W    | SAE     | 3 Contact Lugs     | 3        | 400<br>400       |                          |          |                     |
| 24981                          | 24982          | 12/60        | 4825R    | PAR36 | C.I.M. Stop/Tail Red Lens       | 28.0<br>28.0  | 50W<br>18W     | 200     | 3 Screw Terminals  | 2.75     | 200<br>200       | -                        | -        |                     |
| 24995                          |                | 12           | 4880     | PAR46 | C.I.M. Headlamp                 | 28.0          | 60W            | 6,000   | 2 Contact Lugs     | 4        | 800              | -                        | -        |                     |
| 45110                          | 45111          | 12/576       | 4912-1   | 165mm | Auto/Truck Fog                  | 12.8          | 50W            | 14,000  | Slip-on Terminals  | 4.53     | 300              | 40                       | 7        | 167, 307            |
|                                | 45113          | 16           | 4913-1   | 165mm | Farm Tractor, Flood             | 12.8          | 50W            | 1,350   | Slip-on Terminals  | 4.53     | 400              | 80                       | 20       | 4, 307              |
| 45116                          | 16195          | 12/576       | 4921-1   | 165mm | Auto/Truck, Special Service     | 13.0          | 100W           | 25,000  | Slip-on Terminals  | 4.53     | 300              | 40                       | 7        | 109, 307            |
| 11639                          |                | 6            | 5001     | PAR46 | Headlamp, High Beam, 1C1        | 12.8          | 50W            | SAE     | 2 Contact Lugs     | 4        | 300              |                          |          | 4                   |
| 16152                          |                | 12           | 5557     | PAR64 | Aircraft Landing/Taxiing        | 28.0<br>28.0  | 1,000W<br>400W | 540M    | 3 Screw Terminals  | 3.75     | 50<br>100        | 11<br>25                 | 15<br>11 | 138, 302            |
| 25114                          |                | 12           | 6006     | PAR56 | Auto Headlamp                   | 6.1<br>6.2    | 50W<br>40W     | SAE     | 3 Contact Lugs     | 5        | 300<br>500       |                          |          |                     |
| 18519                          |                | 6            | 6014     | PAR56 | Auto Headlamp, Type 2D1         | 12.8<br>12.8  | 60W<br>50W     | SAE     | 3 Contact Lugs     | 5        | 320<br>150       |                          |          | 4                   |
| 38416                          | 38607          | 12/432       | 6015     | PAR56 | Headlamp, Type 2D1              | 12.8<br>12.8  | 50W<br>50W     | SAE     | 3 Contact Lugs     | 5        | 300<br>500       |                          |          | 4                   |
| 25153                          |                | 12           | 6045     | PAR56 | Signal                          | 26.0          | 170W           | 230,000 | Screw Terminals    | 4.5      | 100              | 9                        | 8        |                     |
| 18521                          | 43867          | 6/448        | 6052     | 200mm | Auto Headlamp, Type 2B1         | 12.8<br>12.8  | 65W<br>55W     | SAE     | 3 Contact Lugs     | 5.44     | 150<br>320       |                          |          | 4, 307              |
| 40190                          | 40191          | 12/60        | 7400     | PAR36 | Signal, Rotating Beacon         | 12.8          | 35W            | 33,000  | Slip-on Terminals  | 2.75     | 300              | 12                       | 5        |                     |
|                                | 42385          | 60           | 7400-1   | PAR36 | Signal, Rotating Beacon         | 12.8          | 35W            | 33,000  | Screw Terminals    | 2.75     | 300              | 12                       | 5        |                     |
| 39987                          | 39988          | 12/60        | 7414Y    | PAR36 | Signal, Light Yellow Lens       | 12.8          | 18W            | 1,000   | Screw Terminals    | 2.75     | 300              | 50                       | 25       |                     |
| 41865                          | 41866          | 12/60        | 7613     | PAR36 | Emergency Bldg. Lighting        | 6.0           | 8W             | 400     | Screw Terminals    | 2.75     | 50               | 30                       | 20       |                     |
| 45101                          | 45102          | 12/60        | 7613-1   | PAR36 | Emergency Bldg. Lighting        | 6.0           | 8W             | 400     | Slip-on Terminals  | 2.75     | 50               | 30                       | 20       |                     |
| 11421                          | 11422          | 12/60        | 7672-1   | PAR36 | Emergency Bldg. Lighting        | 6.0           | 7.2W           | 350     | Slip-on Terminals  | 2.75     | 50               | 30                       | 20       |                     |
| 22386                          |                | 6            | H4351    | 140mm | Headlamp Low Beam Type K        | 12.8          | 55W            | SAE     | Right Angle        | 4        | 500              |                          |          | 307                 |
| 10211                          |                | 6            | H4351LH  | 140mm | Auto – Left Drive – Export only | 12.8          | 55W            | –       | Right Angle        | 4        | 500              |                          |          | 307                 |
| 22387                          |                | 6            | H4352    | 140mm | Headlamp, Upper Beam, Type K    | 12.8          | 65W            | SAE     | Right Angle        | 4        | 150              |                          |          | 307                 |
|                                | 18350          | 48           | H4360    | 140mm | Tractor                         | 12.8          | 37.5W          | 2,000   | 2 Right Angle Lugs | 3        | 320              | Trapezoidal              |          | 307                 |
| 15129                          |                | 12           | H4405    | PAR36 | Spotlamp, Shielded Bulb         | 12.8          | 30W            | 66,000  | Screw Terminals    | 2.75     | 100              | 7                        | 4        | 167, 307            |
|                                | 17674          | 60           | H4460X   | PAR36 | Tractor                         | 12.8<br>12.8  | 40W<br>40W     | 11,000  | 3 Screw Terminals  | 2.75     | 320<br>320       | 22<br>22                 | 10<br>13 | 4, 307              |
| 15133                          |                | 12           | H4515    | PAR36 | Spotlamp, Shielded Bulb         | 6.4           | 30W            | 67,000  | Screw Terminals    | 2.75     | 100              | 5.5                      | 4        | 167, 307            |
| 18532                          | 45027          | 6/576        | H4651    | 165mm | Headlamp, High Beam, Type 1A    | 12.8          | 50W            | SAE     | 2 Contact Lugs     | 4.8      | 200              |                          |          | 4, 307              |
| 46375                          |                | 6            | H4651SB  | 165mm | Headlamp, High. 1A. White Light | 12.8          | 50W            | SAE     | 2 Contact Lugs     | 4.8      | 200              |                          |          | 4, 307              |
| 18533                          | 49810          | 6/576        | H4656    | 165mm | Headlamp, Low Beam, 2A1         | 12.8<br>12.8  | 35W<br>35W     | SAE     | 3 Contact Lugs     | 4.8      | 200<br>320       |                          |          | 4, 307              |
| 14753                          |                | 6            | H4656H0  | 165mm | Headlamp, Low 2A1. High output  | 12.8<br>12.8  | 40W<br>55W     | SAE     | 3 Contact Lugs     | 4.8      | 200<br>700       |                          |          | 4, 307              |
| 45475                          |                | 6            | H4656SB  | 165mm | Headlamp, Low 2A1. White Light  | 12.8<br>12.8  | 40W<br>55W     | SAE     | 3 Contact Lugs     | 4.8      | 75<br>200        |                          |          | 4, 307              |

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|--------------------------------|-------------------|-----------------|---------------|-------|-------------------------------|-----------------|-----------------|--------------------------|------|-------------|---------------------|-----------------------------|---------------------|-------------|
| <b>SEALED BEAM (CONTINUED)</b> |                   |                 |               |       |                               |                 |                 |                          |      |             |                     |                             |                     |             |
| 18535                          | 22879             | 6/576           | H4666         | 165mm | Headlamp, High/Low Beam, 2E1  | 12.8<br>12.8    | 65W<br>55W      | SAE 3 Contact Lugs       |      | 4.8         | 150<br>320          |                             |                     | 4, 166, 307 |
| 18536                          | 48533             | 6/480           | H4701         | 150mm | Headlamp High Beam Type UF    | 12.8            | 65W             | SAE 2 Lugs               |      | 3.4         | 150                 |                             |                     | 307         |
| 18538                          | 48534             | 6/480           | H4703         | 150mm | Headlamp, Low Beam Type LF    | 12.8            | 55W             | SAE 2 Lugs               |      | 3.4         | 320                 |                             |                     | 307         |
| 18522                          | 6                 | H5001           | PAR46         |       | Headlamp High Beam, Type 1C1  | 12.8            | 50W             | SAE 2 Contact Lugs       |      | 4           | 200                 |                             |                     | 4, 307      |
| 18523                          | 6                 | H5006           | PAR46         |       | Headlamp, Low Beam Type 2C1   | 12.8<br>12.8    | 35W<br>35W      | SAE 3 Contact Lugs       |      | 4           | 200<br>320          |                             |                     | 4, 307      |
| 19428                          | 19559             | 6/432           | H5024         | PAR56 | Headlamp. High/Low. 2D1.      | 12.8<br>12.8    | 65W<br>42W      | SAE 3 Contact Lugs       |      | 5           | 400<br>2000         |                             |                     | 4, 307      |
| 19411                          | 19556             | 6/576           | H5051         | 165mm | Headlamp, High. 1A. Long Life | 12.8            | 50W             | SAE 2 Contact Lugs       |      | 4.8         | 500                 |                             |                     | 4, 307      |
| 19429                          | 19558             | 6/448           | H5054         | 200mm | Headlamp. High/Low. 2B1.      | 12.8<br>12.8    | 65W<br>42W      | SAE 3 Contact Lugs       |      | 5.44        | 400<br>2000         |                             |                     | 4, 307      |
| 19412                          | 19557             | 6/576           | H5062         | 165mm | Headlamp, High/Low. 2A1.      | 12.8<br>12.8    | 40W<br>55W      | SAE 3 Contact Lugs       |      | 4.8         | 400<br>2000         |                             |                     | 4, 307      |
|                                | 41453             | 48              | H5360         | 140mm | Halogen Tractor Work Light    | 12.8            | 37.5W           | 2,000 2 Right Angle Lugs |      | 3           | 900                 | Trapezoidal                 |                     | 307         |
| 18525                          | 6                 | H6024           | PAR56         |       | Headlamp, High/Low Beam, 2D1  | 12.8<br>12.8    | 65W<br>35W      | SAE 3 Contact Lugs       |      | 5           | 150<br>320          |                             |                     | 4, 307      |
| 18534                          | 11545             | 6/448           | H6054         | 200mm | Headlamp, High/Low Beam, 2B1  | 12.8<br>12.8    | 65W<br>35W      | SAE 3 Contact Lugs       |      | 5.44        | 150<br>320          |                             |                     | 4, 307      |
| 14752                          | 6                 | H6054HO         | 200mm         |       | Headlamp, 2B1. High Output.   | 12.8<br>12.8    | 65W<br>55W      | SAE 3 Contact Lugs       |      | 5.44        | 150<br>700          |                             |                     | 4, 307      |
| 45477                          | 6                 | H6054SB         | 200mm         |       | Headlamp, 2B1. White Light    | 12.8<br>12.8    | 65W<br>55W      | SAE 3 Contact Lugs       |      | 5.44        | 75<br>200           |                             |                     | 4, 307      |
| 43561                          | 43562             | 12/60           | H7550         | PAR36 | Hand Lantern                  | 6.0             | 8W              | 25,000 Screw Terminals   |      | 2.75        | 50                  | 3                           | 3                   | 307         |
|                                | 23541             | 60              | H7550-1       | PAR36 | Hand Lantern                  | 6.0             | 8W              | 25,000 Slip-on Terminals |      | 2.75        | 50                  | 3                           | 3                   | 307         |
| 43564                          | 43565             | 12/60           | H7551         | PAR36 | Emergency Bldg. Lighting      | 6.0             | 8W              | 550 Screw Terminals      |      | 2.75        | 50                  | 30                          | 20                  | 307         |
| 43567                          | 12                | H7552           | PAR36         |       | Emergency Bldg. Lighting      | 6.0             | 10W             | 650 Screw Terminals      |      | 2.75        | 50                  | 30                          | 20                  | 307         |
| 43570                          | 43571             | 12/60           | H7553         | PAR36 | Emergency Bldg. Lighting      | 6.0             | 12W             | 850 Screw Terminals      |      | 2.75        | 50                  | 30                          | 20                  | 307         |
|                                | 43574             | 60              | H7554         | PAR36 | Emergency Bldg. Lighting      | 6.0             | 20W             | 1,400 Screw Terminals    |      | 2.75        | 50                  | 30                          | 20                  | 307         |
| 44642                          | 44643             | 12/60           | H7555         | PAR36 | Emergency Bldg. Lighting      | 12.0            | 8W              | 550 Screw Terminals      |      | 2.75        | 50                  | 30                          | 20                  | 307         |
| 44924                          | 44925             | 12/60           | H7556         | PAR36 | Emergency Bldg. Lighting      | 6.0             | 6W              | 400 Screw Terminals      |      | 2.75        | 50                  | 30                          | 20                  | 307         |
| 12720                          | 12721             | 12/60           | H7557         | PAR36 | Emergency Bldg. Lighting      | 12.0            | 12W             | 850 Screw Terminals      |      | 2.75        | 50                  | 30                          | 20                  | 307         |
| 42841                          | 42842             | 12/60           | H7600         | PAR36 | Signal, Rotating Beacon       | 12.8            | 37.5W           | 60,000 Screw Terminals   |      | 2.75        | 300                 | 9                           | 4½                  | 307         |
| 43576                          | 43577             | 12/60           | H7604         | PAR36 | Halogen Spotlamp              | 12.8            | 50W             | 100,000 Screw Terminals  |      | 2.75        | 100                 | 7                           | 5                   | 307         |
| 14616                          | 43580             | 6/60            | H7606         | PAR36 | Tractor, Flood                | 12.8            | 50W             | 1,000 Screw Terminals    |      | 2.75        | 400                 | 80                          | 30                  | 4, 307      |
|                                | 17672             | 60              | H7607         | PAR36 | Tractor Flood                 | 12.8            | 65W             | 1,500 Screw Terminals    |      | 2.75        | 600                 | Non-Symmetrical             |                     | 4, 307      |
| 14617                          | 43583             | 6/24            | H7609         | PAR46 | Tractor Flood                 | 12.8            | 50W             | 2,200 Screw Terminals    |      | 3.75        | 400                 | 80                          | 20                  | 4, 307      |
| 14618                          | 43586             | 6/60            | H7610         | PAR36 | Halogen Tractor               | 12.8            | 50W             | 5,200 Screw Terminals    |      | 2.75        | 400                 | Trapezoidal                 |                     | 4, 307      |
| 49695                          | 12                | H7612           | PAR46         |       | Halogen Fog                   | 12.8            | 37.5W           | 15,000 Screw Terminals   |      | 3.75        | 450                 | 40                          | 7                   | 307         |
| 49731                          | 49732             | 12/60           | H7614         | PAR36 | Halogen Flood                 | 12.8            | 50W             | 2,000 Screw Terminals    |      | 2.75        | 100                 | 70                          | 30                  | 307         |
| 42838                          | 42839             | 12/60           | H7616         | PAR36 | Halogen Spotlamp              | 12.8            | 37.5W           | 70,000 Screw Terminals   |      | 2.75        | 300                 | 7                           | 4                   | 307         |
| 14619                          | 43589             | 6/24            | H7619         | PAR46 | Halogen Tractor               | 12.8            | 50W             | 6,000 Screw Terminals    |      | 3.75        | 400                 | Trapezoidal                 |                     | 4, 307      |
|                                | 45058             | 24              | H7621-1       | PAR46 | Auto/Truck Special Service    | 12.8            | 50W             | 20,000 Slip-on Terminals |      | 3.75        | 200                 | 50                          | 7                   | 4, 109, 307 |
| 43591                          | 43592             | 12/24           | H7635         | PAR46 | Halogen Spotlamp              | 12.8            | 50W             | 160,000 Screw Terminals  |      | 3.75        | 100                 | 6½                          | 4                   | 307         |
|                                | 18022             | 24              | H7635X        | PAR46 | Halogen Spotlamp              | 12.8            | 50W             | 160,000 Screw Terminals  |      | 3.75        | 100                 | 6½                          | 4                   | 167, 307    |
| 17894                          | 17890             | 12/24           | H7680<br>HIR  | PAR46 | Infrared Spotlamp             | 13.0            | 80W             | 275,000 Screw Terminals  |      | 3.75        | 100                 | 6½                          | 6½                  | 301         |
| 26694                          | 26695             | 12/24           | H7680X<br>HIR | PAR46 | Infrared-Spotlamp Long Life   | 13.0            | 80W             | 230,000 Screw Terminals  |      | 3.75        | 300                 | 6½                          | 6½                  | 301         |



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|--------------------------------|-------------------|-----------------|--------------|-------|--------------------------------------|-----------------|-----------------|---------|--------------------|-------------|---------------------|------------------------|--------------|------------------------|
| <b>SEALED BEAM (CONTINUED)</b> |                   |                 |              |       |                                      |                 |                 |         |                    |             |                     |                        |              |                        |
| 23250                          | 16                |                 | H7913<br>HIR | 165mm | Farm Tractor, Flood<br>Infrared      | 12.8            | 65W             | 4,000   | 2 Contact Lugs     | 4.8         | 800                 | 70                     | 20           | 301                    |
| 13426                          | 16                |                 | H7921-1      | 165mm | Auto/Truck Special Service           | 12.8            | 50W             | 23,900  | Slip-on Terminals  | 4.53        | 200                 | 35                     | 5            | 4, 109, 307            |
| 47460                          | 14892             | 6/16            | H7935-1      | 165mm | Halogen Spotlamp                     | 12.8            | 50W             | 175,000 | Slip-on Terminals  | 4.53        | 100                 | 6½                     | 3½           | 307                    |
| 15767                          | 15763             | 12/48           | H9405        | 150mm | Spotlamp, Halogen                    | 12.8            | 50W             | 100,000 | 2 Right Angle Lugs | 3           | 100                 | 7                      | 4            | 307                    |
| 15769                          | 15768             | 12/48           | H9406        | 150mm | Tractor, Flood, Halogen              | 12.8            | 50W             | 1,350   | 2 Right Angle Lugs | 3           | 400                 | 70                     | 30           | 4, 307                 |
| 15771                          | 15770             | 12/48           | H9411        | 150mm | Tractor, Trapezoidal                 | 12.8            | 50W             | 5,400   | 2 Right Angle Lugs | 3           | 400                 | Trapezoidal            |              | 4, 307                 |
| 15772                          | 48                |                 | H9414        | 150mm | Tractor Medium Flood                 | 12.8            | 50W             | 2,700   | 2 Right Angle Lugs | 3           | 400                 | 45                     | 20           | 4, 307                 |
| 16484                          | 16483             | 12/48           | H9415        | 150mm | Auto, Fog                            | 12.8            | 37.5W           | 12,000  | 2 Right Angle Lugs | 3           | 200                 | 45                     | 5            | 4, 307                 |
| 17988                          | 12                |                 | H9415A       | 150mm | Auto Fog Amber                       | 12.8            | 37.5W           | —       | 2 Right Angle Lugs | 3           | 200                 | 45                     | 5            | 4, 307                 |
| 16976                          | 16978             | 12/48           | H9420        | 150mm | Auto, Driving                        | 12.8            | 50W             | 47,000  | 2 Right Angle Lugs | 3           | 200                 | 15                     | 5            | 4, 307                 |
| 16482                          | 16204             | 12/48           | H9421        | 150mm | Auto, Truck, Special Service         | 12.8            | 50W             | 4,000   | 2 Right Angle Lugs | 3           | 200                 | 45                     | 8            | 4, 109, 307            |
| 22109                          | 12                |                 | Q4509        | PAR36 | Aircraft Landing                     | 13.0            | 100W            | 140,000 | Screw Terminal     | 2.75        | 100                 | 7                      | 7            | 301                    |
| 37706                          | 12                |                 | Q4554        | PAR46 | Aircraft Taxiing                     | 28.0            | 450W            | 65,000  | Screw Terminals    | 2.63        | 100                 | 50                     | 11           | 301                    |
| 40579                          | 12                |                 | Q4559        | PAR64 | Aircraft Landing                     | 28.0            | 600W            | 600,000 | Screw Terminals    | 3.75        | 100                 | 12                     | 8            | 138, 301               |
| 42552                          | 12                |                 | Q4559X       | PAR64 | Aircraft Landing                     | 28.0            | 600W            | 765,000 | Screw Terminals    | 3.75        | 100                 | 11                     | 7½           | 139, 301               |
| 41097                          | 12                |                 | Q4566        | PAR46 | Aircraft Logo Light                  | 28.0            | 450W            | 150,000 | Screw Terminals    | 3.32        | 1,000               | 16                     | 12           | 301                    |
| 37372                          | 12                |                 | Q4597        | PAR46 | Aircraft Flood                       | 28.0            | 450W            | 16,000  | Screw Terminals    | 3.32        | 1,000               | 60                     | 35           | 301                    |
| 40577                          | 12                |                 | Q4629        | PAR64 | Aircraft Logo Light                  | 28.0            | 600W            | 20,000  | Screw Terminals    | 4.81        | 1000                | 55                     | 35           | 301                    |
| 34537                          | 12                |                 | Q4631        | PAR36 | Aircraft Landing,<br>Wing Inspection | 13.0            | 250W            | 80,000  | Screw Terminals    | 2.75        | 500                 | 13                     | 12           | 301                    |
| 39112                          | 12                |                 | Q4632        | PAR36 | Aircraft Logo                        | 13.0            | 250W            | 75,000  | Screw Terminals    | 2.75        | 500                 | 14                     | 12           | 301                    |
| 36271                          | 12                |                 | Q4681        | PAR46 | Aircraft Landing                     | 28.0            | 450W            | 310,000 | Screw Terminals    | 2.63        | 50                  | 15                     | 9            | 301                    |
| 41452                          | 12                |                 | Q5551        | PAR46 | Aircraft Taxiing                     | 28.0            | 250W            | 60,000  | Screw Terminals    | 3.32        | 100                 | 48                     | 12           | 301                    |
| 16784                          | 12                |                 | Q5559        | PAR64 | Aircraft Landing                     | 28.0            | 600W            | 650,000 | Screw Terminals    | 3.75        | 200                 | 11                     | 7½           | 138, 301               |
| 29130                          | 22227             | 12/60           | Q7558        | PAR36 | Landscaping                          | 12.0            | 20W             | 365     | Screw Terminals    | 2.75        | 5000                | 55                     | 45           | 301                    |
| 28113                          | 12                |                 | Q7559        | PAR36 | Landscaping                          | 12.0            | 20W             | 120     | Screw Terminals    | 2.75        | 5000                | 70                     | 70           | 301                    |
| 28111                          | 12                |                 | Q7560        | PAR36 | Landscaping                          | 12.0            | 20W             | 1,900   | Screw Terminals    | 2.75        | 5000                | 24                     | 23           | 301                    |
| 28874                          | 12                |                 | Q7561        | PAR36 | Landscaping                          | 12.0            | 20W             | 11,000  | Screw Terminals    | 2.75        | 5000                | 9                      | 8            | 301                    |



## FOOTNOTES

### # Footnote

- 1 Special ballast required per ECE R99.
- 2 B3 life, not average life.
- 3 Useful life hours.
- 4 Life at 14 volts.
- 10 Life at 5 volts.
- 11 Filament vertical.
- 12 Average overall length.
- 13 Filament supported.
- 14 This lamp may not be suitable for some uses because of its excessive wattage requirements for the bulb size.
- 15 This lamp may not be suitable for some uses because of its limited mechanical strength.
- 17 Filament shielded.
- 23 Life at 7 volts.
- 32 Designed and rated for operation in supplementary cathode preheat circuits.
- 33 Connections of major and minor filament to base are reversed from those for automotive lamps with Double Contact Index bases. Burn base down to horizontal.
- 44 Life at 6.6 volts.
- 68 Uses lens-end TL3¼ bulb. Provides 7,000 to 11,000 foot-candles in a ¼" diameter spot at ¼" from end of bulb.
- 69 Not recommended for new OEM applications - suggested for new design are wedge base.
- 70 These lamps produce a random flashing indication only. The majority should flash between 40-160 flashes per minute at normal room temperature, some will be outside this range. As ambient temperature and/or input voltage changes, the flash rate may vary considerably. At rated voltage and room temperature most lamps will flash within 60 seconds.
- 75 Life estimated. Based on limited test information.
- 78 ANSI specifies .38" LCL and .63" MOL.
- 79 Life shown is AC voltage only. DC life will be approx. 50% of AC.
- 80 Light output is approx. end foot candles, not spherical MSCP.
- 92 Filament segments parallel.
- 109 Special fixture required for highway use.
- 110 To be used with variable load flasher in applications where bulb outage indication is not required, or with an appropriate fixed load flasher. Flash rate may be altered if used with incorrect fixed load flasher.
- 113 This is a flange seal wire terminal lamp. When unbased lamps such as these are handled and wired into a device, damage can be kept to a minimum by allowing sufficient clearance so that no physical strain or excessive heat is placed on the exhaust tube, exhaust tube tip, or glass seal; by taking care in mounting lamp in equipment so that any material touching the glass is compatible in thermal expansion; and by avoiding excessive tensile strain on the lead wires.
- 116 Life tests are performed on DC voltage only.
- 121 To minimize the possible adverse effects on lamp life due to excessive wattage in relationship to bulb size: Burn Base Down to Base 45° Above Horizontal. Regardless of burning position, this excessive wattage will abnormally decrease light output during lamp life.
- 122 This is a wire terminal lamp. The glass-to-metal seal (and tip where applicable) are susceptible to damage by thermal shock, and soldering or welding within ⅛" of the glass should be avoided as glass cracks and air leaks may develop. Solderability may be adversely affected by storage for an extended period in excess of six months or by storage in a high humidity environment. Lamps with tinned leads would be subject to these storage restrictions. Nickel-plated leads are not recommended for soldering; however, their ability to be welded is not affected by these storage restrictions.
- 124 .028" metal pins spaced 44mm (.157") apart. GE's two-pin lamps might not be compatible with all G-4 sockets since many sockets do not provide clearance for the exhaust tip.
- 127 LCL measured to top of filament.
- 128 Output is minimum ¼" spot at .100" from bulb top.
- 130 Subminiature wedge base lamps under 12 volts have copper-clad outer lead wires to decrease contact resistance at the expense of corrosion resistance in severe environments.
- 132 Paint may peel, craze or discolor when subjected to excessive moisture, heat, and freezing in housings with plugged drain holes or which otherwise leak or trap moisture.
- 138 Life Test Conditions: Cycled 5 minutes on, 5 off.
- 139 Life Test Conditions: Cycled 20 minutes on, 20 off.
- 147 Differs from ANSI.
- 160 Filament will generate specified MSCP in a non shielded bulb.
- 161 MSCP measured with black top.
- 162 Life based on three hours of burning per start. MSCP at 100 Hrs. Designed and rated for operation in supplementary cathode preheat circuits. Use these lamps with auxiliary equipment specially designed to produce proper electrical values according to established specification. For total load, add auxiliary watts to lamp watts.
- 164 Life to approximately 50% of initial output. Values shown apply to use on AC unless otherwise shown. Life on DC is approximately 60% of AC values when DC current is equal to R.M.S. (Root Mean Square) AC value. When equal DC and R.M.S. AC voltages and equal resistances are utilized, life will be approximately the same.
- 166 Contact Lugs are angled.
- 167 Filament shielded.

## WARNINGS AND CAUTION NOTICES

### 301

#### ▲ WARNING

##### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

##### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

##### Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

#### ▲ CAUTION

##### Risk of burn

- Allow lamp/fixture to cool before handling

##### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

### 302

#### ▲ WARNING

##### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

##### Unexpected lamp rupture may cause injury, fire, or property damage

- Avoid contact with glass during operation
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product

### 303

#### ▲ WARNING

##### Lamp may shatter if used in wrong circuit

- Do not use in 110-120 Volt household circuit

### 304

#### ▲ WARNING

##### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

##### Lamp emits UV radiation which may cause eye/skin injury

- Avoid exposure of eyes and skin to unshielded lamp

##### Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

#### ▲ CAUTION

##### Risk of burn

- Allow lamp/fixture to cool before handling

##### FOR BEST PERFORMANCE

- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage



### WARNINGS AND CAUTION NOTICES (CONTINUED)

#### 305

##### ▲ CAUTION

###### Lamp may shatter and cause injury if broken

- Do not use excessive force when installing lamp

#### 306

##### ▲ WARNING

###### Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

##### ▲ CAUTION

###### Risk of burn

- Allow lamp/fixture to cool before handling

#### 307

##### ▲ WARNING

###### Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

#### 308

##### ▲ WARNING

###### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

###### Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

##### ▲ CAUTION

###### Risk of burn

- Allow lamp/fixture to cool before handling

##### FOR BEST PERFORMANCE

- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage

#### 309

##### ▲ WARNING

###### Risk of electric shock

- Turn power off before inspection, installation or removal

##### ▲ CAUTION

###### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

#### 310

##### ▲ WARNING

###### Risk of electric shock

- Turn power off before inspection, installation or removal

###### Risk of fire

- Use in fixture rated for this product

###### A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

###### Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not use beyond rated life
- Do not turn on lamp until fully installed

##### ▲ CAUTION

###### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed
- Turn power off before installing lamp

###### Lamp may rupture if used on wrong ballast

- Use only properly rated ballast

###### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Remove and install by grasping only plastic portion of the lamp
- Do not use excessive force when installing lamp

##### INSTRUCTIONS

###### FDA Warning

WARNING - This lamp can cause serious skin burn and eye inflammation from short-wave ultraviolet radiation if outer envelope of the lamp is broken or punctured and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. 21 CFR 1040.30.

Hg - LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws

See: [www.lamprecycle.org](http://www.lamprecycle.org) or 1-800-435-4448

Lamp should be installed by an automotive service specialist.



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**1-800-743-0005**  
**www.interlight.biz**

## GENERAL INFORMATION

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# Projection Lamps

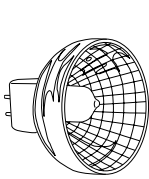
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Interlight Specialty Bulbs

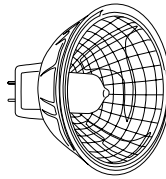
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[www.interlight.biz](http://www.interlight.biz)

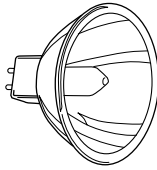
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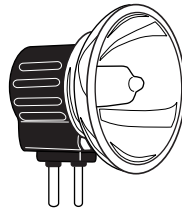
Mini Multi-Mirror®



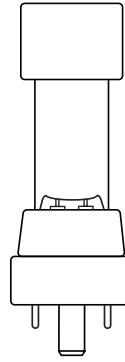
Multi-Mirror®



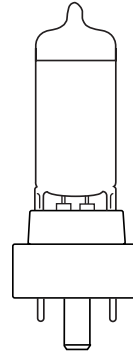
Reflector



2-Pin-Vented Base  
Reflector



4-Pin Base  
CBA



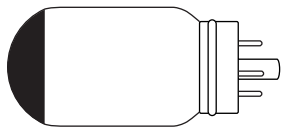
4-Pin Base  
BCK



DAT / DAK  
DAY / DAK

Quartzline® Projection Lamps

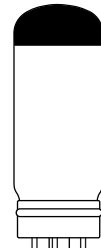
Incandescent Projection  
Lamps / 4-Pin Base



DEK / DFW / DHN

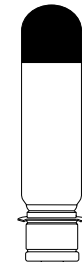


CAR



CZA / CZB

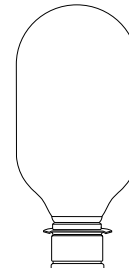
Incandescent Projection Lamps / 4-Pin Base – Proximity Reflector



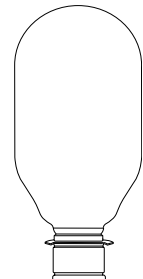
CZX / DAB



DDB

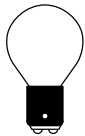


DRB  
DRC

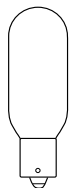


DRS

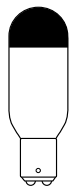
Incandescent Projection Lamps / Medium Prefocus Base



BLX  
BLC  
BNF

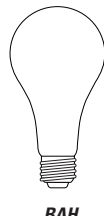


CDD

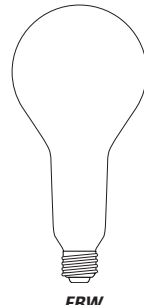


CBX / CBS

Incandescent Projection Lamps / Single  
or Double Contact Bayonet Base

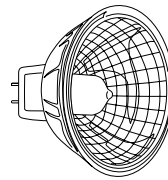


BAH  
BBA  
BCA  
ECA



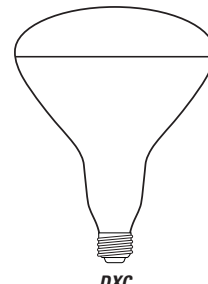
EBW  
ECT

Standard Photofloods

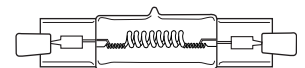


EXV  
EXX  
EZK

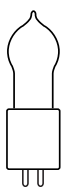
Reflector Photofloods



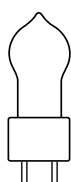
DXC  
EAL



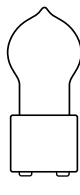
Double-Ended  
Quartzline® Projection Lamps



G-6  
G5.3



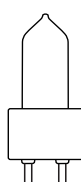
G-7  
GZ9.5



G-7  
2 Button

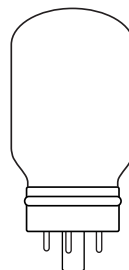


T-4  
GY6.35

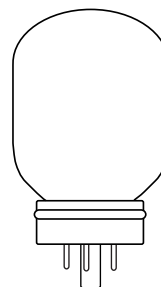


T-4  
GZ9.5

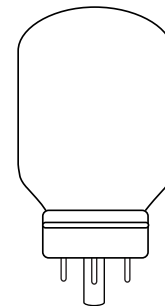
Quartzline® Projection Lamps – Single-Ended



DFN / DFC / DCH /  
DJA / DFP



DLD / DFZ  
GX17q



DJL  
G17q

Incandescent Projection Lamps / 4-Pin Base – Focusing Reflector

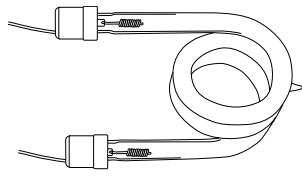


DPT  
Mog Base

Incandescent Projection  
Lamps / Misc.

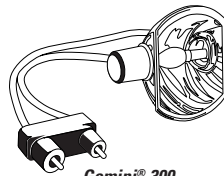


## Projection Lamps



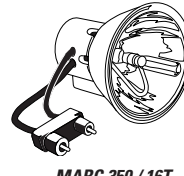
PXA-50  
PXA-80

Pulsed Xenon Arc Lamps



Gemini® 300  
EZG

High-Intensity Gemini® Arc Lamps

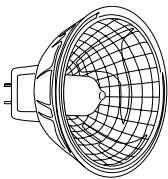


MARC 350 / 16T  
EZT

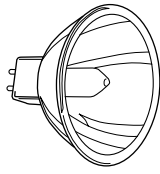
High-Intensity MARC™ Arc Lamps

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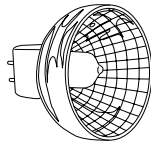
Interlight Specialty Bulbs  
1-800-743-0005  
[www.interlight.biz](http://www.interlight.biz)



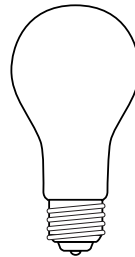
DDF ENH  
EJC ESD  
ELC ESJ  
ELH EVW  
EYA



EJV



EZJ/EZJ



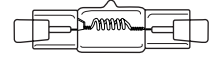
PH/211  
PH/212  
PH/213  
BBA



PH/140



PH/111A

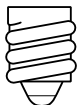


FAL  
FFJ

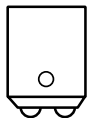
Enlarger & Printer Lamps

## BASE IDENTIFICATION

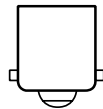
Typical bases used on Projection lamps in this catalog are shown below along with their names and common abbreviations. Where the base is an ANSI standard type, the ANSI reference code (which is the same as the IEC base code) is also shown. ANSI reference codes conform to American National Standard C81.10, C81.30, C81.50 specifications for electric lamp bases and lampholders. Illustrations are not to scale.



Candelabra  
(Cand.)  
E12/15



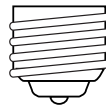
Double Contact  
Bayonet  
(D.C. Bay.)  
BA15d



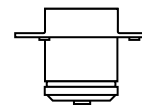
Single Contact  
Bayonet  
(S.C. Bay.)  
BA15s



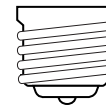
Candelabra Prefocus  
(S.C. Pref.)  
P30s  
(D.C. Pref.)  
P30d



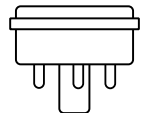
Medium  
E26s



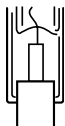
Medium Prefocus  
P28/25



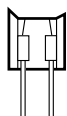
Mogul  
E39



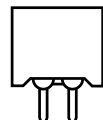
4-Pin  
G17q (Std. Volts)  
GX17q (Low Volts)



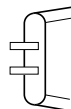
Recessed Single  
Contact  
R7



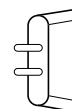
Glass 2-Pin  
G6.35 (.040" diam. Pins)  
GY6.35 (.050" diam. Pins)  
GZ6.35 (Reflector Quartz-  
line® lamps)



Miniature 2-Pin  
G5.3



GY5.3 2-Pin  
(Flat Pins)



GX5.3 2-Pin  
(Round Pins)



2-Button



2-Pin Prefocus  
GY & GZ9.5



2-Pin Vented  
G7.9 (Std. Volts)  
GX7.9 (Low Volts)

## LIGHT CENTER LENGTH (LCL)

Light center length is the distance from the center of the light source to the point indicated below for the lamp base used. It is a measurement to which the lamp is designed and is subject to the manufacturer's tolerances.

| Base Type            | LCL Reference          |
|----------------------|------------------------|
| All Screw Bases      | Bottom base contact    |
| Medium Prefocus      | Top of base fins       |
| S.C. or D.C. Bayonet | Top of base pins       |
| 2-Pin Prefocus       | Bottom of base ceramic |
| Miniature 2-Pin      | Bottom of base pins    |
| Glass 2-Pin          | Bottom of base pins    |

| Base Type                | LCL Reference                               |
|--------------------------|---------------------------------------------|
| 2-Button                 | Top of ceramic base to top of filament coil |
| 2-Pin Vented             | Bottom of base ceramic to lamp optical axis |
| 4-Pin                    | Bottom edge of base cup                     |
| Locking 4-Pin            | Bottom edge of base cup                     |
| S.C., or D.C. Candelabra |                                             |
| Prefocus                 | Plane of locating bosses on prefocus collar |



## FILAMENT IDENTIFICATION

The configuration of the filament in all tungsten filament lamps (including Quartzline®) is identified by a prefix letter and a suffix number. The prefix letter indicates whether the filament wire is a single coil (C) or a coiled coil (CC). The suffix number indicates the form or arrangement of the filament coil or coils on its support structure. Illustrations are not to scale.



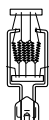
**C-2V**  
**CC2-V**



**C-9**



**2C-8**  
**2CC-8**



**C-13**



**C-13D**



**C-6 Oval**



**C-6**  
**CC-6**



**C-8**  
**CC-8**

## INTRODUCTION

General Electric Projection Lamps are designed for a wide variety of applications... and now extending well beyond the original picture-taking and audio-visual projection uses into such fields as: fiber optical systems, graphic arts, video camera lights, airport runway markers, micrographics, photo printers and enlargers, medical/scientific instruments, and many others.

The information contained in this section is designed to provide end-users, equipment manufacturers, and lamp distributors and dealers with:

- Essential technical data on GE Projection Lamps (Quartzline®, Incandescent, MARC™ and Photoflood)
- Suggested substitutes for improved performance or discontinued lamps

The majority of Projection Lamps described herein are characterized by:

- Precisely manufactured, tailored filaments... maximizing source brightness, optimum performance in precision optical devices

- High light-generating efficacy (lumens per watt)... to help minimize power requirements and heat generation
- Prefocus type bases, or rim-reference mounting for Multi-Mirror® lamps... to position the filament accurately in relation to the associated optics
- Design life Rated Life (per ANSI Standard)
- Lamps with internal or external reflectors (as in Multi-Mirror® and some 4-pin projection lamps)... permitting high-efficiency illumination system designs with a minimum of additional optical control elements

Manufacturers and designers of equipment requiring lamps should select lamps of established design whenever possible for maximum economy, as well as for ease of replacement by their customers through regular trade channels. General Electric offers application engineering assistance to all customers for applying lamps in product design. Contact your local GE Lamp Representative for additional information or assistance.

## CAUTION NOTICE

As with any product, certain precautions should be observed in the handling and use of GE Projection Lamps to provide optimum performance and safety. These are given in the Caution Notices that are printed on page 8-13.

### Important Notice

This catalog contains accumulated data to March 2006. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps. For the latest lamp design data and information, contact your General Electric Lamp Representative.

The data and suggested applications contained in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp for any particular

application or use in any particular equipment, nor are our representatives authorized to make any such representations or give any such warranties. Applications and conditions of use are many and varied, and beyond our control. We cannot possibly have the same degree of knowledge that the purchaser has with respect to the design of his equipment and the conditions of its use. Therefore, it is up to the purchaser to make his own determination as to the suitability of a lamp for his intended application or use and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products when it believes such changes will improve its products.



## GENERAL INFORMATION

General Electric Projection Lamps are briefly described in the alphabetical lamp index (pages 8-6 – 8-7). More extensive descriptive and performance data are found in the lamp tables, which are organized as “families” of lamps with one or more features in common – such as Multi-Mirror® Quartzline®, Single-Ended Quartzline®, 4-Pin Based Incandescent, Photo Flood, etc. Within each table, lamps are listed alphabetically by GE Lamp Code.

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**Interlight Specialty Bulbs**  
**1-800-743-0005**  
**[www.interlight.biz](http://www.interlight.biz)**

## GE MULTI-MIRROR® QUARTZLINE® PROJECTION LAMPS

Invented By GE For Optimized Projection System Performance.

The Multi-Mirror® and its new companion, the Mini Multi-Mirror®, are reflector halogen Quartzline® lamps with innovative GE features that result in better system efficiency, screen uniformity, lamp-to-lamp consistency and relamping convenience.

| Feature                                                                                                                                                                                                                                         | Benefit                                                                                                                                                                                                                                                                                                                                                                                                          | Applications                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Dichroic reflector</li><li>• Precise rim reference<ul style="list-style-type: none"><li>• Accurate snap-in alignment</li></ul></li><li>• Faceted reflector</li><li>• Halogen Quartzline® lamp</li></ul> | <ul style="list-style-type: none"><li>• Cool light beam</li><li>• Efficient light reflection</li><li>• Quick lamp installation</li><li>• Efficient beam for brighter image</li><li>• Uniform screen image</li><li>• Precision beam control</li><li>• Whiter and brighter light</li><li>• No bulb blackening/blistering</li><li>• Constant light output through life</li><li>• Stable color temperature</li></ul> | <ul style="list-style-type: none"><li>• Slide Projection</li><li>• Front/Rear Screen Projection</li><li>• Microfilm</li><li>• Overhead Projection</li><li>• 16mm Movie</li><li>• 8mm Movie</li><li>• Film Strip</li><li>• Enlargers/Printers</li><li>• Fiber Optics</li><li>• Medical/Scientific Instruments</li><li>• Video Camera Lights</li><li>• Airport Runways</li><li>• Display</li></ul> |

Each GE Multi-Mirror® lamp type is optically tailored to its application. First, the appropriate type of multi-faceted reflector is determined. Then a filament tube developed, using advanced Quartzline® technology. Finally, the two are combined, using sophisticated, computerized precision-assembly techniques. The result – consistently high performance... lamp after lamp after lamp.



## Projection Lamps

Click below to order

Interlight Specialty Bulbs

1-800-743-0005

[www.interlight.biz](http://www.interlight.biz)

| Order Code                                  | Description | Watts | Bulb Volts | Shape | Base        | Table No. | Page No. |
|---------------------------------------------|-------------|-------|------------|-------|-------------|-----------|----------|
| <b>INDEX-ANSI CODED GE PROJECTION LAMPS</b> |             |       |            |       |             |           |          |
| <b>BAB USE Q20MR16CG40BAB</b>               |             |       |            |       |             |           |          |
| 10933                                       | BAB/PH      | 20    | 12         | MR16  | GX5.3 2-Pin | 3         | 9        |
| 40886                                       | BAH         | 300   | 115        | A21   | Medium      | 18        | 12       |
| 40563                                       | BBA         | 250   | 118        | A21   | Medium      | 18        | 12       |
| 40564                                       | BCA         | 250   | 118        | A21   | Medium      | 18        | 12       |
| 36178                                       | BCK         | 500   | 120        | T6    | G17q 4-Pin  | 6         | 10       |
| 40658                                       | BHB         | 250   | 120        | MR14  | G7.9 2-Pin  | 5         | 10       |
| <b>BHC USE DYS/DYV/BHC</b>                  |             |       |            |       |             |           |          |
| 29140                                       | BLC         | 30    | 118        | S11   | D. C. Bay.  | 15        | 12       |
| 30232                                       | BLK         | 30    | 125        | S11   | Cand.       | 18        | 12       |
| 29156                                       | BLX         | 50    | 118        | S11   | D. C. Bay.  | 15        | 12       |
| 32137                                       | BNF         | 75    | 120        | S11   | D. C. Bay.  | 15        | 12       |
| 29604                                       | BRH         | 1000  | 120        | T5    | R7s         | 9         | 11       |
| 18234                                       | BRL         | 50    | 12         | T3.5  | G6.35 2-Pin | 7         | 10       |
| 30421                                       | BXB         | 34    | 8.5        | T8    | S. C. Pref. | 16        | 12       |
| 29525                                       | CAL         | 300   | 120        | T10   | G17q 4-Pin  | 11        | 11       |
| 29380                                       | CAR         | 150   | 120        | T10   | G17q 4-Pin  | 11        | 11       |
| 29171                                       | CAX         | 50    | 118        | T8    | D. C. Bay.  | 15        | 12       |
| 29169                                       | CAX         | 50    | 130        | T8    | D. C. Bay.  | 15        | 12       |
| <b>CBS USE CBX/CBS</b>                      |             |       |            |       |             |           |          |
| 29208                                       | CBX/CBS     | 75    | 118        | T8    | D. C. Bay.  | 15        | 12       |
| 29257                                       | CDD         | 100   | 120        | T8    | S. C. Bay.  | 14        | 12       |
| 29266                                       | CDJ         | 100   | 118        | T8    | D. C. Bay.  | 15        | 12       |
| 29244                                       | CEB         | 100   | 118        | T8    | D. C. Bay.  | 15        | 12       |
| 43330                                       | CEM         | 120   | 120        | T8    | S. C. Bay.  | 14        | 12       |
| 29664                                       | CZA/CZB     | 500   | 120        | T10   | G17q 4-Pin  | 11        | 11       |
| <b>CZB USE CZA/CZB</b>                      |             |       |            |       |             |           |          |
| 29677                                       | CZX/DAB     | 500   | 120        | T10   | Med. Pref.  | 13        | 12       |
| <b>DAB USE CZX/DAB</b>                      |             |       |            |       |             |           |          |
| <b>DAK USE DAT/DAK</b>                      |             |       |            |       |             |           |          |
| 40214                                       | DAT/DAK     | 400   | 120        | T10   | G17q 4-Pin  | 10        | 11       |
| 29695                                       | DAY/DAK     | 500   | 120        | T10   | G17q 4-Pin  | 10        | 11       |
| 29360                                       | DCA         | 150   | 21         | T12   | GX17q 4-Pin | 12        | 11       |
| 29364                                       | DCH/DJA/DFP | 150   | 120        | T12   | G17q 4-Pin  | 12        | 11       |
| 43537                                       | DDL         | 150   | 20         | MR16  | GX5.3 2-Pin | 3         | 9        |
| 43206                                       | DDM         | 80    | 19         | MR16  | GX5.3 2-Pin | 3         | 9        |
| 43988                                       | DDS         | 80    | 21         | MR16  | GX5.3 2-Pin | 3         | 9        |
| 43950                                       | DED         | 85    | 13.8       | MR16  | GX5.3 2-Pin | 3         | 9        |
| 29737                                       | DEK/DFW/DHN | 500   | 120        | T12   | G17q 4-Pin  | 11        | 11       |
| <b>DFC USE DFN/DFC</b>                      |             |       |            |       |             |           |          |
| 36122                                       | DFE         | 80    | 30         | T12   | GX17q 4-Pin | 12        | 11       |
| 29386                                       | DFN/DFC     | 150   | 125        | T12   | G17q 4-Pin  | 12        | 11       |
| <b>DFP USE DHC/DJA/DFP</b>                  |             |       |            |       |             |           |          |
| <b>DFW USE DEK/DFW/DHN</b>                  |             |       |            |       |             |           |          |
| <b>DFZ USE DLD/DFZ</b>                      |             |       |            |       |             |           |          |

| Order Code                                              | Description | Watts | Bulb Volts | Shape | Base           | Table No. | Page No. |
|---------------------------------------------------------|-------------|-------|------------|-------|----------------|-----------|----------|
| <b>INDEX-ANSI CODED GE PROJECTION LAMPS (CONTINUED)</b> |             |       |            |       |                |           |          |
| <b>DHN USE DEK/DFW/DHN</b>                              |             |       |            |       |                |           |          |
| <b>DHX USE DLS/DLG/DHX</b>                              |             |       |            |       |                |           |          |
| <b>DJA USE DHC/DJA/DFP</b>                              |             |       |            |       |                |           |          |
| 29338                                                   | DJL         | 150   | 120        | T14   | G17q 4-Pin     | 12        | 12       |
| 44854                                                   | DJT         | 50    | 13.8       | MR16  | GX5.3 2-Pin    | 3         | 9        |
| 40216                                                   | DLD/DFZ     | 80    | 30         | T14   | GX17q 4-Pin    | 12        | 12       |
| <b>DLG USE DLS/DLG/DHX</b>                              |             |       |            |       |                |           |          |
| 29366                                                   | DLS/DLG/DHX | 150   | 22         | T14   | GX17q 4-Pin    | 12        | 12       |
| 40161                                                   | DNE         | 150   | 120        | MR16  | G7.9 2-Pin     | 5         | 10       |
| 39742                                                   | DNF         | 150   | 21         | MR16  | GX7.9 2-Pin    | 5         | 10       |
| 29959                                                   | DPT         | 1000  | 120        | T20   | Mogul          | 17        | 12       |
| 29968                                                   | DRB         | 1000  | 118        | T20   | Med. Pref.     | 13        | 12       |
| 29947                                                   | DRS         | 1000  | 120        | T20   | Med. Pref.     | 13        | 12       |
| 30304                                                   | DVY         | 650   | 120        | G6    | G5.3 2-Pin     | 7         | 10       |
| 30151                                                   | DXB         | 500   | 120        | R40   | Medium         | 19        | 13       |
| 30145                                                   | DXC         | 500   | 120        | R40   | Medium         | 19        | 13       |
| 36952                                                   | DXX         | 800   | 230        | T4    | R7s            | 9         | 11       |
| 36953                                                   | DXX         | 800   | 240        | T4    | R7s            | 9         | 11       |
| 30364                                                   | DYH         | 600   | 120        | G7    | G5.3 2-Pin     | 7         | 10       |
| 32071                                                   | DYP         | 600   | 120        | G7    | 2-Button       | 7         | 10       |
| 33248                                                   | DYR         | 650   | 220        | G7    | GZ9.5 2-Pin Pf | 7         | 10       |
| 33250                                                   | DYR         | 650   | 240        | G7    | GZ9.5 2-Pin Pf | 7         | 10       |
| 32955                                                   | DYS/DYV/BHC | 600   | 120        | G7    | GZ9.5 2-Pin Pf | 7         | 10       |
| <b>DYV USE DYS/DYV/BHC</b>                              |             |       |            |       |                |           |          |
| 19479                                                   | DYS-5       | 600   | 120        | G7    | GZ9.5 2-Pin Pf | 7         | 10       |
| 37346                                                   | DZA         | 30    | 10.8       | T3.5  | G5.3 2-Pin     | 7         | 10       |
| 37695                                                   | DZE/FDS     | 150   | 24         | T4    | GZ9.5 2-Pin Pf | 7         | 10       |
| 30202                                                   | EAJ         | 35/25 | 12         | T6.4  | D.C. Bay.      | 15        | 12       |
| 30281                                                   | EAL         | 500   | 120        | R40   | Medium         | 19        | 13       |
| 40566                                                   | EBV         | 500   | 118        | PS25  | Medium         | 18        | 12       |
| 40567                                                   | EBW PH/B2   | 500   | 118        | PS25  | Medium         | 18        | 12       |
| 40565                                                   | ECA         | 250   | 120        | A23   | Medium         | 18        | 12       |
| 40568                                                   | ECT         | 500   | 120        | PS25  | Medium         | 18        | 12       |
| 21276                                                   | EFM         | 50    | 8          | MR16  | GZ6.35 2-Pin   | 3         | 9        |
| 21277                                                   | EFN         | 75    | 12         | MR16  | GZ6.35 2-Pin   | 3         | 9        |
| 21278                                                   | EFP         | 100   | 12         | MR16  | GZ6.35 2-Pin   | 3         | 9        |
| 21279                                                   | EFR         | 150   | 15         | MR16  | GZ6.35 2-Pin   | 3         | 9        |
| 37527                                                   | EHA         | 500   | 120        | T6    | GZ9.5 2-Pin Pf | 7         | 10       |
| 14874                                                   | EHJ         | 250   | 24         | T4    | G6.35 2-Pin    | 7         | 10       |
| 32882                                                   | EJA         | 150   | 21         | MR16  | GX5.3 2-Pin    | 4         | 10       |
| 29150                                                   | EJL         | 200   | 24         | MR16  | GX5.3 2-Pin    | 3         | 9        |
| 29151                                                   | EJM         | 150   | 21         | MR16  | GX5.3 2-Pin    | 3         | 9        |
| <b>EJN USE ELD/EJN</b>                                  |             |       |            |       |                |           |          |
| 32831                                                   | EJV         | 150   | 21         | MR16  | GX5.3 2-Pin    | 4         | 10       |
| 32886                                                   | EJY         | 80    | 19         | MR16  | GX5.3 2-Pin    | 4         | 10       |
| 35200                                                   | EKE         | 150   | 21         | MR16  | GX5.3 2-Pin    | 3         | 9        |

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## Projection Lamps

| Order Code                                              | Description | Watts | Volts | Bulb Shape | Base         | Table No. | Page No. |
|---------------------------------------------------------|-------------|-------|-------|------------|--------------|-----------|----------|
| <b>INDEX-ANSI CODED GE PROJECTION LAMPS (CONTINUED)</b> |             |       |       |            |              |           |          |
| 35800                                                   | EKP/ENA     | 80    | 30    | MR16       | GX5.3 2-Pin  | 3         | 9        |
| <b>EKS USE EMM/EKS</b>                                  |             |       |       |            |              |           |          |
| 36899                                                   | EKX         | 200   | 24    | MR16       | GX5.3 2-Pin  | 3         | 9        |
| 36902                                                   | EKZ         | 30    | 10.8  | MR16       | GX5.3 2-Pin  | 3         | 9        |
| 37462                                                   | ELC         | 250   | 24    | MR16       | GX5.3 2-Pin  | 3         | 9        |
| 15377                                                   | ELC/500     | 250   | 24    | MR16       | GX5.3 2-Pin  | 3         | 9        |
| 22023                                                   | ELC/C       | 250   | 24    | MR16       | GX5.3 2-Pin  | 3         | 9        |
| 38306                                                   | ELD/EJN     | 150   | 21    | MR16       | GX5.3 2-Pin  | 3         | 9        |
| 38476                                                   | ELH         | 300   | 120   | MR16       | GY5.3 2-Pin  | 3         | 9        |
| <b>ELR USE ELS/ELR</b>                                  |             |       |       |            |              |           |          |
| 41885                                                   | ELS/ELR     | 50    | 18    | MR14       | GX7.9 2-Pin  | 5         | 10       |
| 42612                                                   | EML         | 175   | 24    | T4         | G5.3 2-Pin   | 7         | 10       |
| 40017                                                   | EMM/EKS     | 250   | 24    | MR14       | GX7.9 2-Pin  | 5         | 10       |
| <b>ENA USE EKP/ENA<br/>ENC USE ENW/ENC</b>              |             |       |       |            |              |           |          |
| 38686                                                   | ENH         | 250   | 120   | MR16       | GY5.3 2-Pin  | 3         | 9        |
| 25475                                                   | ENL         | 50    | 12    | MR16       | GX5.3 2-Pin  | 3         | 9        |
| 40248                                                   | ENW/ENC     | 80    | 19    | MR16       | GX5.3 2-Pin  | 3         | 9        |
| 41705                                                   | ENX         | 360   | 82    | MR16       | GY5.3 2-Pin  | 3         | 9        |
| 19475                                                   | ENX-5       | 360   | 86    | MR16       | GY5.3 2-Pin  | 3         | 9        |
| 40598                                                   | ENZ         | 50    | 30    | MR16       | GX5.3 2-Pin  | 4         | 10       |
| 41430                                                   | EPN         | 35    | 12    | MR16       | GX5.3 2-Pin  | 3         | 9        |
| 41729                                                   | EPT         | 42    | 10.8  | MR16       | GX5.3 2-Pin  | 3         | 9        |
| 41882                                                   | EPV         | 90    | 14.5  | MR16       | GX5.3 2-Pin  | 3         | 9        |
| 42614                                                   | EPX         | 90    | 14.5  | MR16       | GX5.3 2-Pin  | 3         | 9        |
| 41874                                                   | ERV         | 340   | 36    | MR16       | GX5.3 2-Pin  | 3         | 9        |
| 43756                                                   | ESD         | 150   | 120   | MR16       | GY5.3 2-Pin  | 3         | 9        |
| 11698                                                   | ESJ         | 85    | 82    | MR16       | GY5.3 2-Pin  | 3         | 9        |
| 11322                                                   | ETJ         | 250   | 120   | MR16       | GY5.3 2-Pin  | 3         | 9        |
| 38311                                                   | ETT         | 1000  | 120   | T5         | R7s          | 9         | 11       |
| 41164                                                   | EVD         | 400   | 36    | T6         | GY6.35 2-Pin | 7         | 10       |
| 10099                                                   | EVV         | 120   | 6.6A  | T4         | GZ9.5 2-Pin  | 8         | 11       |
| 11110                                                   | EVW         | 250   | 82    | MR16       | GY5.3 2-Pin  | 3         | 9        |
| 11427                                                   | EWR         | 150   | 6.6A  | T4         | GZ9.5 2-Pin  | 8         | 11       |
| 11478                                                   | EXL         | 30    | 6.6A  | T3.5       | GZ9.5 2-Pin  | 8         | 11       |
| 11482                                                   | EXM         | 45    | 6.6A  | T3.5       | GZ9.5 2-Pin  | 8         | 11       |
| 12092                                                   | EXR         | 300   | 82    | MR13       | GX5.3 2-Pin  | 2         | 9        |
| 12003                                                   | EXV         | 100   | 12    | MR16       | GX5.3 2-Pin  | 3         | 10       |
| 12095                                                   | EXW         | 300   | 82    | MR13       | GX5.3 2-Pin  | 2         | 9        |
| 11750                                                   | EXX         | 250   | 120   | MR16       | GY5.3 2-Pin  | 3         | 10       |
| 12097                                                   | EXY         | 250   | 82    | MR13       | GX5.3 2-Pin  | 2         | 9        |
| 12696                                                   | EYB         | 360   | 82    | T3.5       | G5.3 2-Pin   | 7         | 11       |
| 19322                                                   | EYB-5       | 360   | 86    | T3.5       | G5.3 2-Pin   | 7         | 11       |
| 13617                                                   | EYH/FKT     | 250   | 120   | G6         | G5.3 2-Pin   | 7         | 11       |

| Order Code                                              | Description      | Watts | Volts | Bulb Shape | Base               | Table No. | Page No. |
|---------------------------------------------------------|------------------|-------|-------|------------|--------------------|-----------|----------|
| <b>INDEX-ANSI CODED GE PROJECTION LAMPS (CONTINUED)</b> |                  |       |       |            |                    |           |          |
| 41783                                                   | EZA/4            | 32    | 6.6A  | MR16       | Wire Term.         | 3         | 10       |
| 23071                                                   | EZC              | 45    | 6.6A  | MR16       | GX5.3 2-Pin        | 3         | 10       |
| 15832                                                   | EZF/EZJ          | 225   | 68    | MR13       | GX5.3 2-Pin        | 2         | 9        |
| <b>EZJ USE EZF/EZJ</b>                                  |                  |       |       |            |                    |           |          |
| 15477                                                   | EZK              | 150   | 120   | MR16       | GY5.3 2-Pin        | 3         | 10       |
| 15243                                                   | EZL              | 200   | 6.6A  | T4         | GZ9.5 2-Pin        | 8         | 11       |
| 29581                                                   | FAL              | 420   | 120   | T4         | R7s                | 9         | 11       |
| <b>FBD USE FBG/FBD</b>                                  |                  |       |       |            |                    |           |          |
| 33663                                                   | FBG/FBD          | 500   | 120   | G6         | G5.3 2-Pin         | 7         | 11       |
| 29598                                                   | FCB              | 600   | 120   | T4         | R7s                | 9         | 11       |
| 14876                                                   | FCR              | 100   | 12    | T3         | GY6.35 2-Pin       | 7         | 11       |
| 13598                                                   | FCS              | 150   | 24    | T4         | G6.35 2-Pin        | 7         | 11       |
| <b>FDS USE DZE/FDS</b>                                  |                  |       |       |            |                    |           |          |
| 35321                                                   | FDT              | 100   | 12    | T3         | GZ9.5 2-Pin Pf     | 7         | 11       |
| 36878                                                   | FDV              | 150   | 24    | T4         | G6.35 2-Pin        | 7         | 11       |
| 29592                                                   | FFJ              | 600   | 120   | T4         | R7s                | 9         | 11       |
| 30276                                                   | FFM              | 420   | 120   | T4         | R7s                | 9         | 11       |
| 47614                                                   | FHS              | 300   | 82    | MR13       | GX5.3 2-Pin        | 2         | 9        |
| 47914                                                   | FHX              | 25    | 13.8  | MR16       | GX5.3 2-Pin        | 3         | 10       |
| <b>FKT USE EYH/FKT</b>                                  |                  |       |       |            |                    |           |          |
| 30894                                                   | FLS              | 28    | 12    | MR11       | GZ4 2-Pin          | 1         | 9        |
| 25261                                                   | FLT              | 28    | 13.8  | MR11       | GZ4 2-Pin          | 1         | 9        |
| 19886                                                   | FLW              | 300   | 24    | T4         | GY6.35 Ceramic     | 7         | 11       |
| 14887                                                   | FML              | 50    | 13.8  | MR16       | GX5.3 2-Pin        | 3         | 10       |
| 18241                                                   | FNT/100          | 275   | 24    | T4         | G6.35 2-Pin        | 7         | 11       |
| 21613                                                   | FXL              | 410   | 82    | MR16       | GY5.3 2-Pin        | 3         | 10       |
| 80853                                                   | GCA              | 250   | 120   | T3.5       | G5.3               | 7         | 11       |
| 11134                                                   | GEMINI 300(EZG)  | 300   | 35    | PAR20      | Special 2-Pin Plug | 21        | 13       |
| 39936                                                   | MARC 350-16T EZT | 350   | 45    | PAR24      | Special 2-Pin Plug | 21        | 13       |
| 30162                                                   | PH/111A          | 75    | 125   | S11        | S.C. Bay.          | 20        | 13       |
| 43220                                                   | PH/140           | 75    | 120   | S14        | Medium             | 20        | 13       |
| 40569                                                   | PH/211           | 75    | 120   | A21        | Medium             | 20        | 13       |
| 40570                                                   | PH/212           | 150   | 120   | A21        | Medium             | 20        | 13       |
| 40571                                                   | PH/213           | 250   | 120   | A21        | Medium             | 20        | 13       |
| 30124                                                   | PXA 50           | 4000  |       | T3         | WireTerm/Ceramic   | 21        | 13       |
| 30129                                                   | PXA/80           | 8000  |       | T3         | WireTerm/Ceramic   | 21        | 13       |



# Projection Lamps

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## HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking Projection lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by ANSI code.

### Maximum Overall Length (MOL)

This dimension include the lamp bulb and all rigid parts of the base. Since the listed lengths include maximum tolerances, actual lamps are generally slightly shorter.

### Bulb

Projection Lamp bulb designations use a combination of letters and numerals to indicate bulb shape and maximum diameter in eighths of an inch. For example: a "T12" bulb is Tubular-shaped and 12-eighths of an inch, or 1 1/2" in diameter. Illustrations of typical Projector Lamps and their respective bulb designations are shown in the tables of lamp families, pages 8-9 – 8-13.

### Base

Projection Lamp base illustrations appear on page 8-3, along with their common trade names and abbreviations, plus their letter-number ANSI/IEC designations where applicable.

### Watts (or Amps)

This column shows the rated power consumption (watts) of the lamp at its design voltage. A few lamps, in Table 8, are rated in terms of current (amperes) drawn initially at their rated voltage. The watts shown for the lamps in Table 8 are the approximate initial values for operation at rated amperes.

### Order Code:

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

### Description

This is a 3-letter or letter-number code uniquely identifying the lamp for ordering purposes. In some instances, lamps with 3-letter (ANSI) codes are offered in more than one design voltage, in which case the voltage required should also be specified when ordering.

### Volts

The voltage shown is the design voltage of the lamp, on which the life and wattage ratings are based. Lamps are available only in the design voltage(s) shown. When ordering lamps listed for more than one voltage, be sure to specify the voltage required. (Supply voltage variation can significantly affect lamp life.)

### Case Quantity:

Number of product units packed in a case.

### Filament

Typical filament configurations for Projection Lamps are shown on page 8-4, along with an explanation of the filament designation system.

### Light Center Length (LCL)

This dimension defines the location of the filament in relation to the base. It is measured from the geometric center of the filament to a specified point on, or plane through, the base. Light Center Length is subject to manufacturing tolerances. Reference points/planes from which LCL is measured are tabulated on page 8-3 for the various styles of lamp bases.

### Rated Life

Life ratings of Projection Lamps are based on closely controlled laboratory tests of lamps, at their rated voltage, over a long period of production time. Rated Life is not necessarily the same as service life; mechanical shock and vibration, voltage fluctuation, temperature and other environmental factors may result in shorter service life. As with any median value, some individual lamps will operate longer, and some will operate shorter, than their Rated Life. (Supply voltage variation can significantly affect lamp life.)

### Initial Lumens

The value shown is based on spherical photometry, at rated voltage, of lamps that have been seasoned for approximately 15% (or minimum of 2 hours) or more of their rated average life.

### Color Temperature

The radiation within the visible spectrum from tungsten filament lamps is similar in spectral distribution to that from a "blackbody" at specific color temperatures. The Color Temperatures shown are approximate initial values in degrees kelvin (K) for lamps operated at rated voltage.

### CBCP (Center Beam Candlepower):

For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.

### Operating Position

For good performance, lamps must be used within specified limitations on operating position. The following abbreviations are used in the lamp tables to indicate these limits:

BD = Base Down. Operate only vertical, base down.  
 HD = Base Down to Horizontal. Do not operate base above horizontal.  
 H22 = Operate base down to 22° base up.  
 U = Operate in any position.

### Additional Information

Typical application and/or other important information.

### Source Size

This is defined as the dimensions of the rectangular area, centered on the lamp axis, within which all luminous parts of the filament lie, when viewed perpendicular to the axis of the filament coil or to the plane of C-13 and C-13D filaments.

### Typical Working Distance

For Multi-Mirror® and other reflector Quartzline® lamps and MARC™ lamps, the Working Distance shown is the distance from the front surface of the reflector rim to the film plane, in the optical system for which the lamp was first designed. In most cases, it provides a uniform plane of light for the intended aperture.

| Bulb Shape                                                            | Base  | Order Watts | Code | Description | Volts | Case Qty. | Filament Design | MOL | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | Burn Position | Additional Information | Footnote | Typical Source Working Distance (WxH) |
|-----------------------------------------------------------------------|-------|-------------|------|-------------|-------|-----------|-----------------|-----|------|------------------|----------------|---------------|---------------|------------------------|----------|---------------------------------------|
| <b>QUARTZLINE® MULTI-MIRROR® REFLECTORS</b>                           |       |             |      |             |       |           |                 |     |      |                  |                |               |               |                        |          |                                       |
| <b>MR-16 FACETED DICHROIC REFLECTOR. 2" DIAMETER (51MM). TABLE 3.</b> |       |             |      |             |       |           |                 |     |      |                  |                |               |               |                        |          |                                       |
| MR16                                                                  | GX5.3 | 2-Pin       | 150  | 43537       | DDL   | 20        | 20              | C-6 | 1.75 | 500              |                | 3150          | HD            | Microfilm              | A        | 7.75                                  |

**DDL**

ANSI Code.



| Bulb Shape                                                                | Base        | Order Watts | Code  | Description | Volts | Case Qty. | Filament Design | MOL  | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | Burn CBCP | Position | Additional Information         | Footnote | Typical Working Distance | Source Size (WxH) |
|---------------------------------------------------------------------------|-------------|-------------|-------|-------------|-------|-----------|-----------------|------|-----|------------------|----------------|---------------|-----------|----------|--------------------------------|----------|--------------------------|-------------------|
| <b>QUARTZLINE® MULTI-MIRROR® REFLECTORS</b>                               |             |             |       |             |       |           |                 |      |     |                  |                |               |           |          |                                |          |                          |                   |
| <b>MR-11 FACETED DICHROIC REFLECTOR. 1 3/8" DIAMETER (35MM). TABLE 1.</b> |             |             |       |             |       |           |                 |      |     |                  |                |               |           |          |                                |          |                          |                   |
| MR11                                                                      | GZ4 2-Pin   | 28          | 30894 | FLS         | 12    | 10        | CC-6            | 1.38 |     | 1000             |                | 3000          |           | HD       | Microfilm                      | A        |                          |                   |
|                                                                           |             |             | 25261 | FLT         | 13.8  | 10        | CC-6            | 1.38 |     | 500              |                | 3050          |           | HD       | Microfilm                      | A        |                          |                   |
| <b>MR-13 FACETED DICHROIC REFLECTOR. 1 1/3" DIAMETER (42MM). TABLE 2.</b> |             |             |       |             |       |           |                 |      |     |                  |                |               |           |          |                                |          |                          |                   |
| MR13                                                                      | GX5.3 2-Pin | 300         | 12092 | EXR         | 82    | 20        | CC-8            | 1.75 |     | 35               |                | 3350          |           | HD       | Slide projection               | A        | 6.00                     |                   |
|                                                                           |             |             | 12095 | EXW         | 82    | 20        | CC-8            | 1.75 |     | 15               |                | 3450          |           | HD       | Slide projection               | A        | 6.00                     |                   |
|                                                                           |             | 250         | 12097 | EXY         | 82    | 20        | CC-8            | 1.75 |     | 200              |                | 3200          |           | HD       | Slide projection               | A        | 6.00                     |                   |
|                                                                           |             | 225         | 15832 | EZF/EZJ     | 68    | 20        | CC-8            | 1.75 |     | 350              |                |               |           | HD       | Color printer.                 | A, R     |                          |                   |
|                                                                           |             | 300         | 47614 | FHS         | 82    | 20        | CC-8            | 1.75 |     | 70               |                | 3300          |           | HD       | Slide projection               | A        | 6.00                     |                   |
| <b>MR-16 FACETED DICHROIC REFLECTOR. 2" DIAMETER (51MM). TABLE 3.</b>     |             |             |       |             |       |           |                 |      |     |                  |                |               |           |          |                                |          |                          |                   |
| MR16                                                                      | GX5.3 2-Pin | 20          | 10933 | BAB/PH      | 12    | 20        | C-6             | 1.88 |     | 2000             |                | 2900          |           | HD       | Flood                          | A        | 5.00                     |                   |
|                                                                           |             | 150         | 43537 | DDL         | 20    | 20        | C-6             | 1.75 |     | 500              |                | 3150          |           | HD       | Microfilm                      | A        | 7.75                     |                   |
|                                                                           |             | 80          | 43206 | DDM         | 19    | 20        | CC-6            | 1.75 |     | 50               |                | 3350          |           | HD       | Slide projection               | A        | 6.00                     |                   |
|                                                                           |             | 80          | 43988 | DDS         | 21    | 20        | CC-6            | 1.75 |     | 1000             |                | 3125          |           | HD       | Microfilm                      | A        | 6.50                     |                   |
|                                                                           |             | 85          | 43950 | DED         | 13.8  | 20        | C-6             | 1.75 |     | 1000             |                | 3150          |           | HD       | Microfilm                      | A        | 6.50                     |                   |
|                                                                           |             | 50          | 44854 | DJT         | 13.8  | 20        | CC-6            | 1.75 |     | 1000             |                | 3150          |           | HD       | Microfilm                      | A        | 6.00                     |                   |
| GZ6.35 2-Pin                                                              |             | 50          | 21276 | EFM         | 8     | 20        | C-6             | 1.75 |     | 50               |                | 3300          |           | HD       | 8mm projection                 | A        | 1.25                     |                   |
|                                                                           |             | 75          | 21277 | EFN         | 12    | 20        | CC-6            | 1.75 |     | 50               |                | 3350          |           | HD       | 8mm projection                 | A        | 1.25                     |                   |
|                                                                           |             | 100         | 21278 | EFP         | 12    | 20        | CC-6            | 1.75 |     | 50               |                | 3350          |           | HD       | 8mm projection                 | A        | 1.25                     |                   |
|                                                                           |             | 150         | 21279 | EFR         | 15    | 20        | CC-6            | 1.75 |     | 50               |                | 3350          |           | HD       | 8mm projection                 | A        | 1.25                     |                   |
| GX5.3 2-Pin                                                               |             | 200         | 29150 | EJL         | 24    | 20        | CC-6            | 1.75 |     | 50               |                | 3400          |           | HD       | 16mm, Color printer            | A        | 1.25                     |                   |
|                                                                           |             | 150         | 29151 | EJM         | 21    | 20        | CC-6            | 1.75 |     | 40               |                | 3350          |           | HD       | 8mm projection                 | A        | 1.50                     |                   |
|                                                                           |             | 150         | 35200 | EKE         | 21    | 20        | CC-6            | 1.75 |     | 250              |                | 3250          |           | HD       | 8mm projection, fiber optics   | A        | 1.75                     |                   |
|                                                                           |             | 80          | 35800 | EKP/ENA     | 30    | 20        | CC-6            | 1.75 |     | 25               |                | 3350          |           | HD       | 8mm projection                 | A        | 1.75                     |                   |
|                                                                           |             | 200         | 36899 | EKX         | 24    | 20        | CC-6            | 1.75 |     | 25               |                | 3400          |           | HD       | Microfilm                      | A        | 5.50                     |                   |
|                                                                           |             | 30          | 36902 | EKZ         | 10.8  | 20        | C-6             | 1.75 |     | 200              |                | 3100          |           | HD       | 16mm projection                | A        | 1.50                     |                   |
|                                                                           |             | 250         | 37462 | ELC         | 24    | 20        | CC-6            | 1.75 |     | 50               |                | 3400          |           | HD       | Fiber optics, color printer    | A        | 1.25                     |                   |
|                                                                           |             | 250         | 22023 | ELC/C       | 24    | 20        | CC-6            | 1.75 |     | 50               |                | 3400          |           | HD       | Fiber optics, color printer    | A        | 1.25                     |                   |
|                                                                           |             | 250         | 15377 | ELC/500     | 24    | 20        | CC-6            | 1.75 |     | 500              |                | 3350          |           | HD       | Fiber optics, disco            | A        | 1.25                     |                   |
|                                                                           |             | 150         | 38306 | ELD/EJN     | 21    | 20        | CC-6            | 1.75 |     | 40               |                | 3350          |           | HD       | Microfilm                      | A        | 6.50                     |                   |
| GY5.3 2-Pin                                                               |             | 300         | 38476 | ELH         | 120   | 20        | CC-8            | 1.75 |     | 35               |                | 3350          |           | HD       | Slide projection               | A        | 6.00                     |                   |
|                                                                           |             | 250         | 38686 | ENH         | 120   | 20        | CC-8            | 1.75 |     | 175              |                | 3250          | 11700     | HD       | Slide projection               | A        | 6.00                     |                   |
| GX5.3 2-Pin                                                               |             | 50          | 25475 | ENL         | 12    | 20        | C-6             | 1.75 |     | 4000             |                | 3050          |           | HD       | Fiber optics, display lighting | A        | 1.50                     |                   |
|                                                                           |             | 80          | 40248 | ENW/ENC     | 19    | 20        | CC-6            | 1.75 |     | 200              |                | 3200          |           | HD       | 8mm projection                 | A        | 1.75                     |                   |
| GY5.3 2-Pin                                                               |             | 360         | 41705 | ENX         | 82    | 20        | CC-8            | 1.75 |     | 75               |                | 3300          |           | HD       | Overhead projection            | A        | 11.75                    |                   |
|                                                                           |             |             | 19475 | ENX-5       | 86    | 20        | CC-8            | 1.75 |     | 75               |                | 3300          |           | HD       | Overhead projection            | A        |                          |                   |
| GX5.3 2-Pin                                                               |             | 35          | 41430 | EPN         | 12    | 20        | C-6             | 1.75 |     | 50               |                | 3300          |           | HD       | 8mm projection                 | A        | 1.13                     |                   |
|                                                                           |             | 42          | 41729 | EPT         | 10.8  | 20        | C-6             | 1.75 |     | 10000            |                | 2900          |           | HD       | Fiber optics                   | A        | 1.50                     |                   |
|                                                                           |             | 90          | 41882 | EPV         | 14.5  | 20        | CC-6            | 1.75 |     | 500              |                | 3150          |           | HD       | Microfilm                      | A        | 6.13                     |                   |
|                                                                           |             |             | 42614 | EPX         | 14.5  | 20        | CC-6            | 1.75 |     | 500              |                | 3150          |           | HD       | Microfilm                      | A        | 6.50                     |                   |
|                                                                           |             | 340         | 41874 | ERV         | 36    | 20        | CC-8            | 1.75 |     | 75               |                | 3300          |           | HD       | Overhead projection            | A        | 11.75                    |                   |
| GY5.3 2-Pin                                                               |             | 150         | 43756 | ESD         | 120   | 20        | CC-8            | 1.75 |     | 12               |                | 3350          |           | HD       | Enlarger, projection           | A        | 1.75                     |                   |
|                                                                           |             | 85          | 11698 | ESJ         | 82    | 20        | CC-8            | 1.75 |     | 40               |                | 3350          |           | HD       | Enlarger, projection           | A        | 1.75                     |                   |
|                                                                           |             | 250         | 11322 | ETJ         | 120   | 20        | CC-8            | 1.75 |     | 175              |                | 3300          |           | HD       | Fiber Optics                   | A        | 1.50                     |                   |
|                                                                           |             | 250         | 11110 | EVW         | 82    | 20        | CC-8            | 1.75 |     | 50               |                | 3300          |           | H22      | Overhead projection            | A        | 11.75                    |                   |



| Bulb Shape                                                                        | Base          | Order Watts | Code         | Description   | Volts | Case Qty. | Filament Design | MOL  | LCL | Rated Life Hours | Lumens Initial | Color Temp. K | Burn Position | Additional Information | Footnote            | Typical Working Distance | Source Size (WxH) |
|-----------------------------------------------------------------------------------|---------------|-------------|--------------|---------------|-------|-----------|-----------------|------|-----|------------------|----------------|---------------|---------------|------------------------|---------------------|--------------------------|-------------------|
| <b>QUARTZLINE® MULTI-MIRROR® REFLECTORS (CONTINUED)</b>                           |               |             |              |               |       |           |                 |      |     |                  |                |               |               |                        |                     |                          |                   |
| <b>MR-16 FACETED DICHROIC REFLECTOR. 2" DIAMETER (51MM). TABLE 3. (CONTINUED)</b> |               |             |              |               |       |           |                 |      |     |                  |                |               |               |                        |                     |                          |                   |
| MR16                                                                              | GX5.3 2-Pin   | 100         | <b>12003</b> | <b>EXV</b>    | 12    | 20        | CC-6            | 1.75 |     | 50               | 3100           | 3350          | 3100          | U                      | Camera Light        | A                        |                   |
|                                                                                   |               | 250         | <b>11750</b> | <b>EXX</b>    | 120   | 20        | CC-8            | 1.75 |     | 25               | 6750           | 3300          | 6750          | U                      | Camera Light        | A                        |                   |
|                                                                                   | Wire Term.    | 32          | <b>41783</b> | <b>EZA/4</b>  | 6.6A  | 20        | C-8             | 1.75 |     | 1000             |                | 2900          | 4500          | HD                     | Airport             | A                        |                   |
|                                                                                   | GX5.3 2-Pin   | 45          | <b>23071</b> | <b>EZC</b>    | 6.6A  | 20        | C-8             | 1.75 |     | 1000             |                | 2950          |               | HD                     | Airport             | A                        |                   |
|                                                                                   | GY5.3 2-Pin   | 150         | <b>15477</b> | <b>EZK</b>    | 120   | 20        | CC-8            | 1.75 |     | 200              |                | 3200          | 3600          | U                      | Camera Light        | A                        |                   |
|                                                                                   | GX5.3 2-Pin   | 25          | <b>47914</b> | <b>FHX</b>    | 13.8  | 20        | CC-6            | 1.75 |     | 250              |                | 3200          |               | HD                     | Microfilm           | A                        | 4.13              |
|                                                                                   |               | 50          | <b>14887</b> | <b>FML</b>    | 13.8  | 20        | CC-6            | 1.75 |     | 1000             |                | 3150          |               | HD                     | Microfilm           | A                        | 8.44              |
|                                                                                   | GY5.3 2-Pin   | 410         | <b>21613</b> | <b>FXL</b>    | 82    | 20        | CC-8            | 1.75 |     | 38               |                | 3300          |               | HD                     | Overhead projection | A                        | 11.75             |
|                                                                                   | 2-Pin w/LEADS | 150         | <b>25137</b> | <b>Q150MR</b> | 15    | 20        | C-8             | 1.88 |     | 150              |                | 3400          |               | HD                     |                     | A                        | 1.75              |
| <b>16-15/LEADS</b>                                                                |               |             |              |               |       |           |                 |      |     |                  |                |               |               |                        |                     |                          |                   |

## QUARTZLINE® REFLECTOR LAMPS

### MR-16 SMOOTH DICHROIC REFLECTOR. 2" DIAMETER (51MM). TABLE 4.

|      |             |     |              |            |    |    |      |      |  |    |  |      |  |    |                    |   |      |
|------|-------------|-----|--------------|------------|----|----|------|------|--|----|--|------|--|----|--------------------|---|------|
| MR16 | GX5.3 2-Pin | 150 | <b>32882</b> | <b>EJA</b> | 21 | 20 | CC-6 | 1.75 |  | 40 |  | 3350 |  | HD | Fiber Optics       | A | 1.10 |
|      |             | 150 | <b>32831</b> | <b>EJV</b> | 21 | 20 | CC-6 | 1.75 |  | 40 |  | 3350 |  | HD | 8mm proj., printer | A | 1.75 |
|      |             | 80  | <b>32886</b> | <b>EJY</b> | 19 | 20 | CC-6 | 1.75 |  | 25 |  | 3400 |  | HD | Fiber Optics       | A | 1.50 |
|      |             | 50  | <b>40598</b> | <b>ENZ</b> | 30 | 20 | CC-6 | 1.75 |  | 25 |  | 3450 |  | HD | 8mm projection     | A | 1.25 |

### MR-14 (1¾" DIAMETER) OR MR-16 (2" DIAMETER) DICHROIC REFLECTOR. 2-PIN VENTED BASE. TABLE 5.

|      |             |     |              |                |     |    |      |      |  |     |  |      |  |    |                 |   |      |
|------|-------------|-----|--------------|----------------|-----|----|------|------|--|-----|--|------|--|----|-----------------|---|------|
| MR14 | G7.9 2-Pin  | 250 | <b>40658</b> | <b>BHB</b>     | 120 | 24 | CC-8 | 1.67 |  | 25  |  | 3350 |  | HD | 16mm projection | A | 2.63 |
| MR16 | G7.9 2-Pin  | 150 | <b>40161</b> | <b>DNE</b>     | 120 | 24 | CC-8 | 1.77 |  | 12  |  | 3350 |  | HD | 8mm projection  | A | 2.75 |
|      | GX7.9 2-Pin | 150 | <b>39742</b> | <b>DNF</b>     | 21  | 24 | CC-8 | 1.77 |  | 25  |  | 3400 |  | HD | 8mm projection  | A | 2.75 |
| MR14 | GX7.9 2-Pin | 50  | <b>41885</b> | <b>ELS/ELR</b> | 18  | 24 | CC-8 | 1.41 |  | 650 |  | 3100 |  | HD | Microfilm       | A | 4.75 |
|      |             | 250 | <b>40017</b> | <b>EMM/EKS</b> | 24  | 24 | CC-8 | 1.66 |  | 50  |  | 3400 |  | HD | 16mm projection | A | 2.63 |

## QUARTZLINE® SINGLE-ENDED

### 4-PIN SLIDE PROJECTION. TABLE 6.

|    |            |     |              |            |     |    |       |      |      |    |  |      |  |    |                   |      |  |
|----|------------|-----|--------------|------------|-----|----|-------|------|------|----|--|------|--|----|-------------------|------|--|
| T6 | G17q 4-Pin | 500 | <b>36178</b> | <b>BCK</b> | 120 | 24 | C-13D | 3.25 | 1.56 | 50 |  | 3200 |  | HD | Slide Projection. | A, D |  |
|----|------------|-----|--------------|------------|-----|----|-------|------|------|----|--|------|--|----|-------------------|------|--|

### APPLICATIONS: PROJECTION, MICROFILM, STUDIO, ETC. TABLE 7.

|      |                |     |              |                     |      |     |          |      |      |     |       |      |  |    |                    |      |           |
|------|----------------|-----|--------------|---------------------|------|-----|----------|------|------|-----|-------|------|--|----|--------------------|------|-----------|
| T3.5 | G6.35 2-Pin    | 50  | <b>18234</b> | <b>BRL</b>          | 12   | 100 | C-6      | 1.72 | 1.17 | 50  | 1400  | 3400 |  | U  |                    | A    |           |
| G6   | G5.3 2-Pin     | 650 | <b>30304</b> | <b>DVY</b>          | 120  | 24  | CC-6     | 2.48 | 1.44 | 25  | 20000 | 3300 |  | HD |                    | A, E | .50 x .20 |
| G7   | G5.3 2-Pin     | 600 | <b>30364</b> | <b>DYH</b>          | 120  | 24  | CC-6     | 2.50 | 1.44 | 75  | 17000 | 3200 |  | U  |                    | A    | .50 x .25 |
|      | 2-Button       | 600 | <b>32071</b> | <b>DYP</b>          | 120  | 24  | CC-6     | 2.25 | 1.00 | 75  | 17000 | 3200 |  | HD |                    | A    | .50 x .25 |
|      | GZ9.5 2-Pin Pf | 650 | <b>33248</b> | <b>DYR</b>          | 220  | 24  | 2CC-8    | 2.50 | 1.44 | 50  | 16500 | 3200 |  | U  |                    | A    | .45 x .45 |
|      |                |     | <b>33250</b> | <b>DYR</b>          | 240  | 24  | 2CC-8    | 2.50 | 1.44 | 50  | 16500 | 3200 |  | U  |                    | A    | .45 x .45 |
|      |                | 600 | <b>19479</b> | <b>DYS-5</b>        | 120  | 24  | CC-6     | 2.50 | 1.44 | 150 | 15500 | 3200 |  | HD |                    | A    | .45 x .45 |
|      |                |     | <b>32955</b> | <b>DYS/DYV/ BHC</b> | 120  | 24  | CC-6     | 2.50 | 1.44 | 75  | 17000 | 3200 |  | HD |                    | A    | .50 x .25 |
| T3.5 | G5.3 2-Pin     | 30  | <b>37346</b> | <b>DZA</b>          | 10.8 | 24  | C-6      | 2.00 | 1.06 | 400 | 530   | 3100 |  | HD |                    | A    | .15 x .05 |
| T4   | GZ9.5 2-Pin Pf | 150 | <b>37695</b> | <b>DZE/FDS</b>      | 24   | 24  | C-6 Oval | 2.68 | 1.31 | 100 | 4000  | 3250 |  | HD |                    | A    | .25 x .15 |
| T6   | GZ9.5 2-Pin Pf | 500 | <b>37527</b> | <b>EHA</b>          | 120  | 24  | C-13D    | 3.00 | 1.44 | 50  |       | 3300 |  | HD |                    | A, D | .35 x .35 |
| T4   | G6.35 2-Pin    | 250 | <b>14874</b> | <b>EHJ</b>          | 24   | 100 | C-6 Oval | 2.25 | 1.31 | 50  | 8000  | 3400 |  | HD |                    | A    | .30 x .15 |
|      | G5.3 2-Pin     | 175 | <b>42612</b> | <b>EML</b>          | 24   | 24  | C-6      | 2.12 | 1.06 | 125 | 5000  | 3200 |  | HD |                    | A    | .21 x .19 |
| T6   | GY6.35 2-Pin   | 400 | <b>41164</b> | <b>EVD</b>          | 36   | 24  | C-6      | 2.34 | 1.40 | 50  | 14500 | 3200 |  | HD | Overhead projector | A    |           |



| Bulb Shape                                                                    | Base           | Order Watts | Code  | Description | Volts | Case Qty. | Filament Design | MOL  | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | Burn Position | Additional Information             | Footnote | Typical Working Distance | Source Size (WxH) |
|-------------------------------------------------------------------------------|----------------|-------------|-------|-------------|-------|-----------|-----------------|------|------|------------------|----------------|---------------|---------------|------------------------------------|----------|--------------------------|-------------------|
| <b>QUARTZLINE® SINGLE-ENDED (CONTINUED)</b>                                   |                |             |       |             |       |           |                 |      |      |                  |                |               |               |                                    |          |                          |                   |
| <b>APPLICATIONS: PROJECTION, MICROFILM, STUDIO, ETC. TABLE 7. (CONTINUED)</b> |                |             |       |             |       |           |                 |      |      |                  |                |               |               |                                    |          |                          |                   |
| T3.5                                                                          | G5.3 2-Pin     | 360         | 12696 | EYB         | 82    | 24        | CC-8            | 2.25 | 1.25 | 75               | 10000          | 3300          | HD            |                                    | A        |                          | .30 x .20         |
|                                                                               |                |             | 19322 | EYB-5       | 86    | 24        | CC-8            | 2.25 | 1.25 | 75               |                | 3200          | HD            |                                    | A        |                          | .30 x .20         |
| G6                                                                            | G5.3 2-Pin     | 250         | 13617 | EYH/FKT     | 120   | 24        | CC-6            | 2.50 | 1.44 | 200              | 6000           | 3000          | HD            |                                    | A        |                          | .55 x .17         |
|                                                                               |                | 500         | 33663 | FBG/FBD     | 120   | 24        | CC-6            | 3.00 | 1.75 | 50               | 13200          | 3200          | U             |                                    | A        |                          | .50 x .20         |
| T3                                                                            | GY6.35 2-Pin   | 100         | 14876 | FCR         | 12    | 100       | C-6 Oval        | 1.75 | 1.18 | 50               | 2800           | 3300          | HD            |                                    | A        |                          | .20 x .15         |
| T4                                                                            | G6.35 2-Pin    | 150         | 13598 | FCS         | 24    | 100       | C-6 Oval        | 2.00 | 1.18 | 50               | 4500           | 3300          | HD            |                                    | A        |                          | .25 x .15         |
| T3                                                                            | GZ9.5 2-Pin Pf | 100         | 35321 | FDT         | 12    | 24        | C-6 Oval        | 2.12 | 1.06 | 50               | 2900           | 3300          | HD            |                                    | A        |                          | .23 x .15         |
| T4                                                                            | G6.35 2-Pin    | 150         | 36878 | FDV         | 24    | 24        | C-6 Oval        | 2.00 | 1.19 | 100              | 4300           | 3050          | U             |                                    | A        |                          | .25 x .15         |
|                                                                               | GY6.35 Ceramic | 300         | 19886 | FLW         | 24    | 48        | C-6 Oval        | 2.15 | 1.21 | 50               | 10200          | 3500          | HD            |                                    | A        |                          | .34 x .23         |
|                                                                               | G6.35 2-Pin    | 275         | 18241 | FNT/100     | 24    | 100       | C-6 Oval        | 2.25 | 1.31 | 50               | 10000          | 3400          | HD            |                                    | A        |                          | .14 x .28         |
| T3.5                                                                          | G5.3           | 250         | 80853 | GCA         | 120   | 12        | CC-8            | 2.24 | 1.26 | 200              | 5700           | 3200          | U             |                                    | A        |                          |                   |
| <b>QUARTZLINE® SINGLE-ENDED – AMP RATED. TABLE 8.</b>                         |                |             |       |             |       |           |                 |      |      |                  |                |               |               |                                    |          |                          |                   |
| T4                                                                            | GZ9.5 2-Pin    | 120         | 10099 | EVV         | 6.6A  | 24        | C-6 Oval        | 2.50 | 1.54 | 500              | 3150           | 3200          | BD            | Airport                            | A        |                          | .25 x .12         |
|                                                                               |                | 150         | 11427 | EWR         | 6.6A  | 24        | C-6 Oval        | 2.50 | 1.54 | 500              | 4100           | 3200          | BD            | Airport                            | A        |                          | .25 x .16         |
| T3.5                                                                          | GZ9.5 2-Pin    | 30          | 11478 | EXL         | 6.6A  | 24        | C-8             | 1.75 | 1.00 | 1000             | 375            | 2900          | HD            | Airport                            | A        |                          | .05 x .13         |
|                                                                               |                | 45          | 11482 | EXM         | 6.6A  | 24        | C-8             | 1.75 | 1.00 | 1000             | 750            | 2950          | HD            | Airport                            | A        |                          | .06 x .19         |
| T4                                                                            | GZ9.5 2-Pin    | 200         | 15243 | EZL         | 6.6A  | 24        | C-6 Oval        | 2.50 | 1.54 | 500              | 5000           | 3100          | BD            | Airport                            | A        |                          | .28 x .19         |
| <b>QUARTZLINE® DOUBLE-ENDED PROJECTION. TABLE 9.</b>                          |                |             |       |             |       |           |                 |      |      |                  |                |               |               |                                    |          |                          |                   |
| T5                                                                            | R7s            | 1000        | 29604 | BRH         | 120   | 24        | CC-8            | 3.75 |      | 60               | 30000          | 3350          | U             | Overhead Projection                | A        |                          | .70 x .21         |
| T4                                                                            | R7s            | 800         | 36952 | DXX         | 230   | 24        | CC-8            | 3.13 |      | 75               | 21400          | 3200          | U             | Copyboard, Studio                  | A        |                          | .90 x .17         |
|                                                                               |                |             | 36953 | DXX         | 240   | 24        | CC-8            | 3.13 |      | 75               | 21400          | 3200          | U             | Copyboard, Studio                  | A        |                          | .90 x .17         |
| T5                                                                            | R7s            | 1000        | 38311 | ETT         | 120   | 24        | CC-8            | 3.75 |      | 70               |                | 3350          | U             | Spec. (PH1000H)                    | A        |                          |                   |
| T4                                                                            | R7s            | 420         | 29581 | FAL         | 120   | 24        | CC-8            | 2.63 |      | 90               | 11000          | 3200          | U             | Printer                            | A        |                          | .35 x .17         |
|                                                                               |                | 600         | 29598 | FCB         | 120   | 24        | CC-8            | 3.75 |      | 120              | 17000          | 3250          | U             | Overhead Projection                | A        |                          | .45 x .18         |
|                                                                               |                |             | 29592 | FFJ         | 120   | 24        | CC-8            | 2.63 |      | 85               | 17000          | 3250          | U             | Printer                            | A        |                          | .60 x .17         |
|                                                                               |                | 420         | 30276 | FFM         | 120   | 24        | CC-8            | 3.13 | 0.50 | 90               | 11000          | 3200          | U             | Copyboard                          | A        |                          | .50 x .25         |
| <b>INCANDESCENT PROJECTION</b>                                                |                |             |       |             |       |           |                 |      |      |                  |                |               |               |                                    |          |                          |                   |
| <b>4-PIN BASE. TABLE 10.</b>                                                  |                |             |       |             |       |           |                 |      |      |                  |                |               |               |                                    |          |                          |                   |
| T10                                                                           | G17q 4-Pin     | 400         | 40214 | DAT/DAK     | 120   | 24        | C-13D           | 4.00 | 1.56 | 25               | 9800           | 3200          | BD            | Slide Projection                   | A        |                          |                   |
|                                                                               |                | 500         | 29695 | DAY/DAK     | 120   | 24        | C-13D           | 4.00 | 1.56 | 30               | 12500          | 3200          | BD            | Slide Projection.                  | A, J     |                          |                   |
| <b>4-PIN BASE – PROXIMITY REFLECTOR. TABLE 11.</b>                            |                |             |       |             |       |           |                 |      |      |                  |                |               |               |                                    |          |                          |                   |
| T10                                                                           | G17q 4-Pin     | 300         | 29525 | CAL         | 120   | 24        | C-13            | 4.00 | 1.56 | 25               |                | 3200          | BD            | Slide, Film Strip.                 | A, I     |                          |                   |
|                                                                               |                | 150         | 29380 | CAR         | 120   | 24        | 2CC-8           | 3.13 | 1.31 | 15               |                | 3100          | BD            | Slide, Film Strip.                 | A, J     |                          |                   |
|                                                                               |                | 500         | 29664 | CZA/CZB     | 120   | 24        | C-13D           | 4.00 | 1.56 | 25               |                | 3300          | BD            | Slide Projection Gold Top (opaque) | A, I     |                          |                   |
| T12                                                                           | G17q 4-Pin     | 500         | 29737 | DEK/DFW/DHN | 120   | 24        | C-13D           | 3.62 | 1.75 | 25               |                | 3250          | HD            | Slide Projection.                  | A, H, I  |                          |                   |
| <b>4-PIN BASE – FOCUSING REFLECTOR. TABLE 12.</b>                             |                |             |       |             |       |           |                 |      |      |                  |                |               |               |                                    |          |                          |                   |
| T12                                                                           | GX17q 4-Pin    | 150         | 29360 | DCA         | 21    | 24        | CC-6            | 3.56 | 1.56 | 15               |                | 3250          | HD            | 8mm Projection.                    | A, I     | 1.75                     |                   |
|                                                                               | G17q 4-Pin     | 150         | 29364 | DCH/DJA/DFP | 120   | 24        | CC-6            | 3.38 | 1.56 | 15               |                | 3150          | BD            | 8mm Projection                     | A        | 2.25                     |                   |
|                                                                               | GX17q 4-Pin    | 80          | 36122 | DFE         | 30    | 24        | CC-8            | 3.19 | 1.56 | 15               |                | 3400          | HD            | 8mm Projection                     | A        | 2.25                     |                   |
|                                                                               | G17q 4-Pin     | 150         | 29386 | DFN/DFC     | 125   | 24        | CC-8            | 3.19 | 1.56 | 15               |                | 3150          | HD            | 8mm Projection                     | A        | 2.25                     |                   |



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| Bulb Shape                                                                  | Base        | Order Watts | Code Description         | Case Qty. | Filament Design | MOL  | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | BCBP | Burn Position | Additional Information                                               | Footnote | Typical Working Distance | Source Size (WxH) |
|-----------------------------------------------------------------------------|-------------|-------------|--------------------------|-----------|-----------------|------|------|------------------|----------------|---------------|------|---------------|----------------------------------------------------------------------|----------|--------------------------|-------------------|
| <b>INCANDESCENT PROJECTION (CONTINUED)</b>                                  |             |             |                          |           |                 |      |      |                  |                |               |      |               |                                                                      |          |                          |                   |
| <b>4-PIN BASE – FOCUSING REFLECTOR. TABLE 12. (CONTINUED)</b>               |             |             |                          |           |                 |      |      |                  |                |               |      |               |                                                                      |          |                          |                   |
| T14                                                                         | G17q 4-Pin  | 150         | <b>29338 DJL</b>         | 120       | 24 CC-8         | 3.50 | 1.56 | 15               |                | 3150          |      | HD            | 8mm Projection                                                       | A        | 1.75                     |                   |
|                                                                             | GX17q 4-Pin | 80          | <b>40216 DLD/DFZ</b>     | 30        | 24 CC-6         | 3.50 | 1.56 | 15               |                | 3400          |      | HD            | 8mm Projection.                                                      | A, K     | 1.75                     |                   |
|                                                                             |             | 150         | <b>29366 DLS/DLG/DHX</b> | 22        | 24 CC-6         | 3.44 | 1.56 | 15               |                | 3250          |      | HD            | 8mm Projection.                                                      | A, K     | 1.75                     |                   |
| <b>MEDIUM PREFOCUS BASE. ANSI BASE DESIGNATION: P28/25. TABLE 13.</b>       |             |             |                          |           |                 |      |      |                  |                |               |      |               |                                                                      |          |                          |                   |
| T10                                                                         | Med. Pref.  | 500         | <b>29677 CZX/DAB</b>     | 120       | 24 C-13D        | 5.75 | 2.19 | 25               | 12500          | 3200          |      | BD            | 8mm Projection.                                                      | A, J     |                          |                   |
| T20                                                                         | Med. Pref.  | 1000        | <b>29968 DRB</b>         | 118       | 24 C-13         | 5.75 | 2.19 | 25               | 32000          | 3350          |      | BD            | Overhead projection                                                  | A        |                          |                   |
|                                                                             |             |             | <b>29947 DRS</b>         | 120       | 24 C-13D        | 5.75 | 2.19 | 25               | 28500          | 3325          |      | BD            | Overhead projection                                                  | A        |                          |                   |
| <b>SINGLE CONTACT BAYONET BASE. ANSI BASE DESIGNATION: BA15S. TABLE 14.</b> |             |             |                          |           |                 |      |      |                  |                |               |      |               |                                                                      |          |                          |                   |
| T8                                                                          | S. C. Bay.  | 100         | <b>29257 CDD</b>         | 120       | 24 CC-2V        | 3.13 | 1.38 | 50               | 2000           | 2975          |      | BD            | Slide Projection                                                     | A        |                          |                   |
|                                                                             |             | 120         | <b>43330 CEM</b>         | 120       | 24 2CC-8        | 3.13 | 1.38 | 200              | 1950           | 3000          |      | BD            | Wheel Align Projection.                                              | A, J     |                          |                   |
| <b>DOUBLE CONTACT BAYONET BASE. ANSI BASE DESIGNATION: BA15D. TABLE 15.</b> |             |             |                          |           |                 |      |      |                  |                |               |      |               |                                                                      |          |                          |                   |
| S11                                                                         | D. C. Bay.  | 30          | <b>29140 BLC</b>         | 118       | 120 CC-2V       | 2.38 | 1.38 | 50               | 400            | 2775          |      | U             | Editor Projection                                                    |          |                          |                   |
|                                                                             |             | 50          | <b>29156 BLX</b>         | 118       | 120 CC-2V       | 2.38 | 1.38 | 50               | 780            | 2850          |      | HD            | Toy Projection                                                       |          |                          |                   |
|                                                                             |             | 75          | <b>32137 BNF</b>         | 120       | 120 CC-2V       | 2.38 | 1.38 | 25               | 1300           | 2900          |      | HD            | Toy Projection                                                       |          |                          |                   |
| T8                                                                          | D. C. Bay.  | 50          | <b>29171 CAX</b>         | 118       | 24 CC-2V        | 3.13 | 1.38 | 50               | 775            | 2875          |      | BD            | Optical Projection                                                   |          |                          |                   |
|                                                                             |             | 50          | <b>29169 CAX</b>         | 130       | 24 CC-2V        | 3.13 | 1.38 | 50               | 775            | 2875          |      | BD            | Optical Projection                                                   |          |                          |                   |
|                                                                             |             | 75          | <b>29208 CBX/CBS</b>     | 118       | 24 CC-13        | 3.13 | 1.38 | 50               | 1200           | 2925          |      | BD            | Slide Projection.                                                    | A, J     |                          |                   |
|                                                                             |             | 100         | <b>29266 CDJ</b>         | 118       | 24 CC-2V        | 3.13 | 1.38 | 50               | 2000           | 2975          |      | BD            | Slide Projection                                                     | A        |                          |                   |
|                                                                             |             |             | <b>29244 CEB</b>         | 118       | 24 CC-13        | 3.13 | 1.38 | 50               | 1850           | 2975          |      | BD            | Slide Projection                                                     | A        |                          |                   |
| T6.4                                                                        | D.C. Bay.   | 35          | <b>30202 EAJ</b>         | 12        | 24 C6           | 4.00 | 1.77 | 300              | 620            |               |      | U             | Flashtube Modeling.                                                  | A, L     |                          |                   |
|                                                                             |             | 25          |                          |           | C6              |      |      | 300              | 420            |               |      |               |                                                                      |          |                          |                   |
| <b>SINGLE CONTACT PREFOCUS BASE. ANSI BASE DESIGNATION: P30S. TABLE 16.</b> |             |             |                          |           |                 |      |      |                  |                |               |      |               |                                                                      |          |                          |                   |
| T8                                                                          | S. C. Pref. | 34          | <b>30421 BXB</b>         | 8.5       | 24 C-8          | 3.13 | 1.63 | 100              | 690            |               |      | HD            | Sound Reproduction. Filament offset $\frac{3}{16}$ " from base axis. |          |                          |                   |
| <b>MISCELLANEOUS. TABLE 17.</b>                                             |             |             |                          |           |                 |      |      |                  |                |               |      |               |                                                                      |          |                          |                   |
| T20                                                                         | Mogul       | 1000        | <b>29959 DPT</b>         | 120       | 12 C-13         | 9.06 | 4.75 | 50               | 28000          | 3200          |      | BD            | Opaque Projection                                                    | A        |                          |                   |
| <b>PHOTOFLOOD</b>                                                           |             |             |                          |           |                 |      |      |                  |                |               |      |               |                                                                      |          |                          |                   |
| <b>STANDARD. TABLE 18.</b>                                                  |             |             |                          |           |                 |      |      |                  |                |               |      |               |                                                                      |          |                          |                   |
| A21                                                                         | Medium      | 300         | <b>40886 BAH</b>         | 115       | 24 C-9          | 4.94 |      | 20               | 9000           | 3200          |      | U             | Photocopy, Inside Frost                                              | A        |                          |                   |
|                                                                             |             | 250         | <b>40563 BBA</b>         | 118       | 24 C-9          | 4.94 |      | 3                | 8000           | 3400          |      | U             | No. 1 Photoflood, Frost                                              | A        |                          |                   |
|                                                                             |             |             | <b>40564 BCA</b>         | 118       | 24 C-9          | 4.94 |      | 3                | 5000           | 4800          |      | U             | No B1 Blue, Inside Frost                                             | A        |                          |                   |
| S11                                                                         | Cand.       | 30          | <b>30232 BLK</b>         | 125       | 120 CC-2V       | 2.25 |      | 50               | 400            | 2700          |      | U             | Photocopy, Inside Frost                                              | A        |                          |                   |
| PS25                                                                        | Medium      | 500         | <b>40566 EBV</b>         | 118       | 24 C-9          | 6.94 |      | 6                | 17000          | 3400          |      | U             | No 2, Inside Frost                                                   | A        |                          |                   |
|                                                                             |             |             | <b>40567 EBW PH/B2</b>   | 118       | 24 C-9          | 6.94 |      | 6                | 10500          | 4800          |      | U             | No. B2, Blue, Inside Frost                                           | A        |                          |                   |
| A23                                                                         | Medium      | 250         | <b>40565 ECA</b>         | 120       | 24 C-9          | 6.00 |      | 20               | 6500           | 3200          |      | U             | Inside Frost                                                         | A        |                          |                   |
| PS25                                                                        | Medium      | 500         | <b>40568 ECT</b>         | 120       | 24 C-9          | 6.94 |      | 60               | 13650          | 3200          |      | U             | Inside Frost                                                         | A        |                          |                   |

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| Bulb Shape                                             | Base                  | Order Watts | Code  | Description         | Volts | Case Qty. | Filament Design | MOL  | LCL  | Rated Life Hours | Lumens Initial | Color Temp. K | Burn CBCP | Position | Additional Information   | Footnote | Typical Working Distance | Source Size (WxH) |
|--------------------------------------------------------|-----------------------|-------------|-------|---------------------|-------|-----------|-----------------|------|------|------------------|----------------|---------------|-----------|----------|--------------------------|----------|--------------------------|-------------------|
| <b>PHOTOFLOOD (CONTINUED)</b>                          |                       |             |       |                     |       |           |                 |      |      |                  |                |               |           |          |                          |          |                          |                   |
| <b>REFLECTOR. TABLE 19.</b>                            |                       |             |       |                     |       |           |                 |      |      |                  |                |               |           |          |                          |          |                          |                   |
| R40                                                    | Medium                | 500         | 30151 | DXB                 | 120   | 24        | CC-2V           | 6.63 |      | 6                |                | 3300          | 45000     |          | Spot Beam, 15 degrees.   | A, Q     |                          |                   |
|                                                        |                       |             | 30145 | DXC                 | 120   | 24        | C-9             | 6.63 |      | 6                |                | 3300          | 5500      |          | Flood Beam, 90 degrees.  | A, Q     |                          |                   |
|                                                        |                       |             | 30281 | EAL                 | 120   | 24        | CC-2V           | 6.63 |      | 15               |                | 3200          | 6800      |          | Medium Beam, 60 degrees. | A, Q     |                          |                   |
| <b>ENLARGER &amp; PRINTER. TABLE 20.</b>               |                       |             |       |                     |       |           |                 |      |      |                  |                |               |           |          |                          |          |                          |                   |
| S11                                                    | S.C. Bay.             | 75          | 30162 | PH/111A             | 125   | 120       |                 | 2.38 |      | 15               | 1120           | 2900          |           | HD       | Enlarger, White          | A        |                          |                   |
| S14                                                    | Medium                | 75          | 43220 | PH/140              | 120   | 120       |                 | 3.38 |      | 35               | 1150           | 2900          |           | U        | Enlarger, White          | A        |                          |                   |
| A21                                                    | Medium                | 75          | 40569 | PH/211              | 120   | 24        |                 | 4.94 |      | 65               | 1000           | 3000          |           | U        | Enlarger, White          | A        |                          |                   |
|                                                        |                       | 150         | 40570 | PH/212              | 120   | 24        |                 | 4.94 |      | 100              | 2300           | 3050          |           | U        | Enlarger, White          | A        |                          |                   |
|                                                        |                       | 250         | 40571 | PH/213              | 120   | 24        |                 | 4.94 |      | 3                | 7000           | 3400          |           | U        | Enlarger, White          | A        |                          |                   |
| <b>PULSED XENON ARC, GEMINI®, AND MARC™. TABLE 21.</b> |                       |             |       |                     |       |           |                 |      |      |                  |                |               |           |          |                          |          |                          |                   |
| T3                                                     | WireTerm/<br>Ceramic  | 4000        | 30124 | PXA 50              |       | 6         |                 | 4.63 |      |                  | 125000         | 6000          |           | U        | Graphic Arts             | A, B     |                          |                   |
|                                                        |                       | 8000        | 30129 | PXA/80              |       | 6         |                 | 4.63 |      |                  | 240000         | 6000          |           | U        | Graphic Arts             | A, B     |                          |                   |
| T11                                                    | Special               | 175         | 29376 | CXE175/BF           | 12    | 4         |                 | 1.67 | 1000 | 2200             | 5600           | 350000        | BDTH      |          | Light Engine, Medical    | A, S     |                          |                   |
|                                                        |                       | 300         | 46909 | CXE300/BF/SB 14     | 4     | 4         |                 | 1.67 | 1000 | 6000             | 5600           | 500000        | BDTH      |          | Light Engine, Medical    | A, S     |                          |                   |
|                                                        |                       | 300         | 10115 | CXE300/BF           | 14    | 4         |                 | 1.67 | 1000 | 5000             | 5600           | 500000        | BDTH      |          | Light Engine, Medical    | A, S     |                          |                   |
| PAR20                                                  | Special<br>2-Pin Plug | 300         | 11134 | GEMINI<br>300(EZG)  | 35    | 4         |                 |      | 75   |                  | 6000           |               | H         |          | Replaces MARC 300/16A.   | A, O     | 1.46                     |                   |
| PAR24                                                  | Special<br>2-Pin Plug | 350         | 39936 | MARC<br>350-16T EZT | 45    | 4         |                 |      | 50   | 50               | 5000           |               | H         |          |                          | A, O     | 2.05                     |                   |

### POWER SUPPLY TO OPERATE GEMINI® AND MARC™ LAMPS

For information on the special power supply used to operate these lamps, contact:

Scientecular Lab Company  
98 McKinney Avenue  
Central Islip, NY 11722-4120  
(516) 232-3345

NAPS/Fortron Source  
328 Ley Road, Suite 300  
Ft. Wayne, IN 46808  
(219) 471-1368  
Fax: (219) 471-1368

## WARNING AND CAUTION NOTICES

### A

#### ▲ WARNING

##### Risk of electrical shock

- Turn power off before inspection, installation or removal

##### Risk of fire

- Keep combustible material away from lamp
- Use in enclosed fixtures rated for this product

##### Pressurized lamp-unexpected rupture may cause injury, fire, or property damage

- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact
- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken

#### ▲ CAUTION

##### Risk of burn

- Allow lamp/fixture to cool before handling
- Turn off power before installing lamp  
Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in enclosed container

### S

#### ▲ WARNING

##### Lamp emits UV radiation which may cause eye/skin irritation. RG-3

- Avoid exposure of eyes and skin to unshielded lamp

#### ▲ CAUTION

##### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

## FOOTNOTES

### # Footnote

- B Pulsed Xenon lamps emit high levels of ultraviolet (UV) radiation and must be completely enclosed in an inter-locked system with all walls made of UV absorbing material. The lamp must be made inoperative before the system is opened. The operator or user should never be exposed to the high level of UV radiation emitted by PXA lamps.
- C Opaque Ceramic top on bulb.
- D Proximity Reflector.
- E Ultraviolet absorbing bulb.
- G Heat resistant glass bulb.
- H Collector grid.
- I Gold Top (opaque).
- J Black Top (opaque).
- K Dichroic reflector.
- L Two-filament lamp.
- M Filament offset 3 3/8" from base axis.
- O Should not be operated for periods of less than three minutes.
- Q Approximate beam spread to 1/2 center-beam intensity.
- R Red-enhanced dichroic filter.



NOTES

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1-800-743-0005  
[www.interlight.biz](http://www.interlight.biz)



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## LAMP SIZING GUIDE

### LAMP SIZE/DIAMETER

The diameter of a lamp, at its maximum dimension, is expressed in eighths of an inch. Examples: The diameter of an A19 lamp is 19-eighths of an inch, or 2 $\frac{3}{8}$ ", at its widest point. A T8 lamp has a diameter of 8-eighths, or one inch.

### LIGHT CENTER LENGTH (L.C.L.)

The distance between the center of the filament, or arc tube, and a reference plane — usually the bottom of the lamp base. See L.C.L. Reference Plane Location chart below.

#### L.C.L. Reference Plane Location

| Base Type                          | Location                                                |
|------------------------------------|---------------------------------------------------------|
| All Screw Bases (except Mini-Can.) | Bottom of base contact                                  |
| Mini-Can                           | Where diameter of ceramic base insulator is .531 inches |
| 3-Contact Medium                   | Bottom of base contact                                  |
| Mogul Medium Prefocus              | Top of base fins                                        |
| Mogul Prefocus                     | Top of base fins                                        |
| Medium BiPost                      | Base end of bulb (Glass lamps)                          |
|                                    | Bottom of ceramic base (Quartz lamps)                   |
| Mogul BiPost                       | Shoulder of posts (Glass lamps)                         |
|                                    | Bottom of ceramic base (Quartz lamps)                   |
| 2-Pin Prefocus                     | Bottom of ceramic base                                  |
| S.C. or D.C. Bayonet Candelabra    | Top of base pins                                        |
| Medium Bayonet                     | Top of base pins                                        |
| S.C. or D.C. Prefocus              | Plane of locating bosses on prefocus collar             |
| Medium 2-Pin                       | Bottom of metal base shell                              |

### MAXIMUM OVERALL LENGTH (M.O.L.)

The end-to-end measurement of a lamp, expressed in inches or millimeters.

## IMPORTANT NOTICE

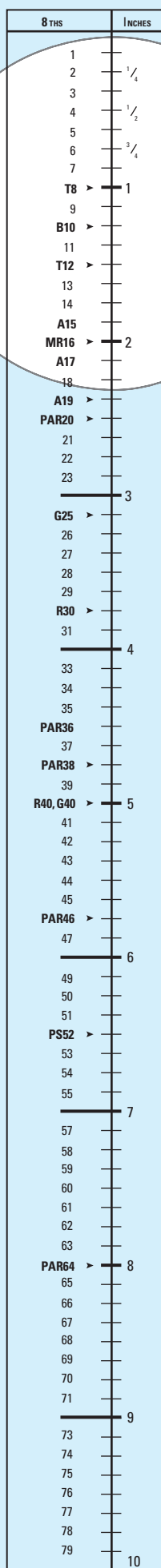
This catalog is a compilation of accumulated data. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps and ballasts. Accordingly, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. For the latest lamp and ballast design data and information, contact your GE Representative.

The data and suggested applications contained in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp or ballast for any particular application or use in any particular equipment, nor are our representatives authorized to make any such warranties. Applications and conditions of use are many and varied, and beyond our control. We cannot possibly have the same degree of knowledge that the purchaser has with respect to the design of his equipment and the conditions of its use. Therefore, it is up to the purchaser to make his own determination as to the suitability of a lamp or ballast for his intended application or use and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products, and to introduce new products or discontinue existing ones without notice.

### APPENDIX LISTINGS:

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## GE LIGHTING U.S. AND CANADIAN SALES OFFICES AND CUSTOMER SERVICE CENTERS

| US Sales Offices                  |                     |                                                                  |                                    | OEM and Specialty Lighting Area Sales Offices                                                                        |                                                                |                                    |
|-----------------------------------|---------------------|------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------|
| Region/States                     | Location            | Address                                                          | Phone/Fax No.                      |                                                                                                                      |                                                                |                                    |
| <b>GE Lighting Headquarters</b>   |                     |                                                                  |                                    | <b>Eastern</b>                                                                                                       | 251 Avenue of Americas<br>7th Floor, New York, NY 10020        | p. 212 575-6067<br>f. 212 575-6605 |
|                                   |                     |                                                                  |                                    | <b>Southeast Specialty</b>                                                                                           | 625 S. Preston Ct.<br>Alpharetta, GA 30022                     | p. 678 762-0808<br>f. 678 393-0919 |
| <b>Eastern</b>                    | <b>Plainville</b>   | 41 Woodford Ave.<br>Plainville, CT 06062                         | p. 860 747-7094<br>f. 860 747-7849 | <b>Southeast OEM</b>                                                                                                 | 1760 Moriah Woods Blvd., Ste. 9<br>Memphis, TN 38117-7128      | p. 901 762-4323<br>f. 901 762-4336 |
| <b>NY, NJ</b>                     | <b>New York</b>     | 34 West Rt. 22<br>Branchburg, NJ 08876                           | p. 908 203-6527<br>f. 908 231-6391 | <b>Midwest</b>                                                                                                       | 701 East 22nd St., Ste. 300<br>Lombard, IL 60148               | p. 630 652-4427<br>f. 630 652-4486 |
| <b>NJ, East PA</b>                | <b>Cherry Hill</b>  | 535 Rt. 38 East<br>Cherry Hill, NJ 08002                         | p. 856 317-5228<br>f. 856 317-5236 | <b>Southwest Central</b>                                                                                             | 1717 West Airfield Dr.<br>Dallas, TX 75261-4014                | p. 817 427-3969<br>f. 817 485-7396 |
| <b>NJ., NY, DE</b>                | <b>Wayne</b>        | 155 Rt. 46 West<br>Wayne, NJ 07470                               | p. 973 256-8956<br>f. 973 256-4350 | <b>Southwest Specialty</b>                                                                                           | 741 Spring Valley Dr.<br>Hurst, TX 76054                       | p. 972 444-2021<br>f. 817 485-7396 |
| <b>MA, RI, VT,<br/>NH, ME, CT</b> | <b>Boston</b>       | 980 Washington St., Ste. 332N<br>Dedham, MA 02026                | p. 781 320-4256<br>f. 781 320-4245 | <b>Rocky Mt &amp; West Coast</b>                                                                                     | 15334 Golden Eagle Blvd.<br>Fountain, AZ 85268                 | p. 480 836-2469<br>f. 480 836-2322 |
| <b>Southeast</b>                  | <b>Atlanta</b>      | 20 Technology Pkwy.<br>Norcross, GA 30092                        | p. 770 662-4979<br>f. 770 447-7218 | <b>West Specialty</b>                                                                                                | 571 Rider Ct.<br>Claremont, CA 91711                           | p. 714 501-5905<br>f. 909 305-4662 |
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| <b>Central</b>                    | <b>Cleveland</b>    | 1975 Noble Rd., Bldg. 335F<br>Cleveland, OH 44112                | p. 216 266-8358<br>f. 216 266-5580 | <b>To Order Product</b>                                                                                              |                                                                |                                    |
| <b>DC, MD, VA</b>                 | <b>Washington</b>   | 7272 Park Circle Dr., Ste. 300<br>Hanover, MD 21076              | p. 410 737-7212<br>f. 410 737-7216 | <b>US/Canada Current Customer Ordering and Tracking - <a href="http://www.geelitenet.com">www.geelitenet.com</a></b> |                                                                |                                    |
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| <b>WI, IA</b>                     | <b>Milwaukee</b>    | 400 N Executive Dr., Ste. 300<br>Brookfield, WI 53005            | p. 262 797-4946<br>f. 262 797-4917 | <b>Canada (French/English)</b>                                                                                       | 1-800-443-4925                                                 | 1-800-443-4930                     |
| <b>MI, NW OH</b>                  | <b>Detriot</b>      | Two Towne Square<br>Southfield, MI 48076                         | p. 248 262-2762<br>f. 248 262-2856 | <b>Telesales</b>                                                                                                     | <b>Telephone</b>                                               | <b>Facsimile</b>                   |
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| <b>KS, MO, OK</b>                 | <b>Kansas City</b>  | 10550 Barkley St., Ste. 200<br>Overland Park, KS 66212           | p. 913 967-6373<br>f. 913 967-6378 | <b>C&amp;I Central</b>                                                                                               | 1-866-355-6210                                                 | 1-800-327-0663                     |
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| <b>South TX</b>                   | <b>Houston</b>      | 3530 W. 12th St., Ste. 100<br>Houston, TX 77008                  | p. 713 880-7496<br>f. 713 880-7493 | <b>C&amp;I West</b>                                                                                                  | 1-800-443-6272                                                 | 1-800-327-0663                     |
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|                                   |                     |                                                                  |                                    | <b>Canada</b>                                                                                                        | 1-800-443-5081                                                 | 1-800-327-0663                     |
|                                   |                     |                                                                  |                                    | <b>Distribution Centers</b>                                                                                          |                                                                |                                    |
|                                   |                     |                                                                  |                                    | <b>Atlanta</b>                                                                                                       | 1700 Westgate Pkwy., Atlanta, GA 30336                         |                                    |
|                                   |                     |                                                                  |                                    | <b>Chicago</b>                                                                                                       | 7770 West 71st St., Bridgeview, IL 60455                       |                                    |
|                                   |                     |                                                                  |                                    | <b>Dallas</b>                                                                                                        | 1717 West Airfield Dr., PO Box 610847, DFW Airport, TX 75261   |                                    |
|                                   |                     |                                                                  |                                    | <b>Hagerstown</b>                                                                                                    | 18212 Shawley Dr., Hagerstown, MD 21740                        |                                    |
|                                   |                     |                                                                  |                                    | <b>Los Angeles</b>                                                                                                   | 11600 Philadelphia Ave., Mira Loma, CA 91752                   |                                    |
|                                   |                     |                                                                  |                                    | <b>Oakville</b>                                                                                                      | 1290 South Service Rd. West, Oakville, Ontario, Canada L6L 5T7 |                                    |
|                                   |                     |                                                                  |                                    | <b>Ravenna</b>                                                                                                       | 150 Loomis Pkwy., Ravenna, OH 44266                            |                                    |
|                                   |                     |                                                                  |                                    | <b>Lighting Technical Information</b>                                                                                |                                                                |                                    |
|                                   |                     |                                                                  |                                    | <b>Consumer Inquiries</b>                                                                                            | 1-800-GE LIGHT (435-4448)                                      |                                    |
|                                   |                     |                                                                  |                                    | <b>Commercial, Trade Magazines</b>                                                                                   | 1-800-GE LAMPS (435-2677)                                      |                                    |
|                                   |                     |                                                                  |                                    | <b>International Customer Service and Sales (USA Exporters Only)</b>                                                 |                                                                |                                    |
|                                   |                     |                                                                  |                                    |                                                                                                                      | <b>Phone Number</b>                                            | <b>Fax Number</b>                  |
|                                   |                     |                                                                  |                                    | <b>Franchise Exporters</b>                                                                                           | 1-800-327-6886                                                 | 1-800-443-5130                     |
|                                   |                     |                                                                  |                                    | <b>International Customers</b>                                                                                       | 1-804-965-1015                                                 | 1-804-965-1018                     |
|                                   |                     |                                                                  |                                    | <b>For Lamp or Technical Support Call or Click</b>                                                                   |                                                                |                                    |
|                                   |                     |                                                                  |                                    | <b>1-800-GE LAMPS</b>                                                                                                |                                                                |                                    |
|                                   |                     |                                                                  |                                    | <b><a href="http://www.GELighting.com">www.GELighting.com</a></b>                                                    |                                                                |                                    |

In addition to the Sales Offices in the cities listed above, GE Lamp Sales Representatives are resident in other cities. Consult your local telephone directory under GE Lighting.



## GLOSSARY OF TERMS

### **Ambient Temperature**

Light output of fluorescent lamps depends on ambient temperature which refers to the temperature INSIDE the fixture in the air surrounding the fluorescent lamp.

### **Amperes**

("Amps.") A measure of electrical current. In incandescent lamps, the current is related to voltage and power as follows: Current (Amps) = Power (Watts) / Voltage (Volts).

### **American National Standards Institute (ANSI)**

A consensus-based organization which coordinates voluntary standards for the physical, electrical and performance characteristics of lamps, ballasts, luminaires and other lighting and electrical equipment.

### **ANSI Ballast Type**

A reference to the ANSI document describing the lamp which also lists the characteristics of the ballast required to operate the lamp. The following naming system is used: H - mercury lamps; M - metal halide lamps; S - high pressure sodium lamps; L - low pressure sodium lamps.

### **Ballast**

An auxiliary piece of equipment required to start and to properly control the flow of current to gas discharge light sources such as fluorescent and high intensity discharge (HID) lamps.

### **Ballast Factor (BF)**

This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast. For example, a ballast with a ballast factor of 0.93 will result in the lamp's emitting 93% of its rated lumen output. A ballast with a lower BF results in less light output and also generally consumes less power.

### **Ballast Losses**

Power or energy dissipated in the ballast as heat and not converted to lamp energy.

### **Beam Angle**

The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 50% of maximum. The beam angle sometimes called "beam spread" is often part of the ordering code for reflectorized lamps. Example: The 50PAR30/HIR/NFL25 is a 50 watt PAR30 narrow flood lamp with a beam angle of 25 degrees. See also Field Angle.

### **Beam Lumens**

The total lumens present within the portion of the beam contained in the beam angle.

### **Biax®**

GE trademark for its biaxial family of high-efficiency and long-life compact fluorescent lamps. DBX (Double Biax) TBX (Triple Biax) and QBX (Quad Biax) refer to the number of U-shaped legs present in the lamp.

### **Canadian Standards Association (CSA)**

An organization that writes standards and tests lighting equipment for performance as well as electrical and fire safety. Canadian provincial laws generally require that all products sold for consumer use in Canada must have CSA or equivalent approval.

### **Candela (cd)**

The measure of luminous intensity of a source in a given direction. The term has been retained from the early days of lighting when a standard candle of a fixed size and composition was defined as producing one candela in every direction. A plot of intensity versus direction is called a candela distribution curve and is often provided for reflectorized lamps and for luminaires with a lamp operating in them.

### **Candlepower**

An obsolete term for luminous intensity; current practice is to refer to this simply as candelas. See Candela.

### **Candlepower Distribution Curve**

A graphical presentation of the distribution of light intensity of a light source, usually a reflector lamp or luminaire.

### **Cathode see electrode**

### **Center Beam Candlepower (CBCP)**

Refers to the luminous intensity at the center of the beam of a blown or pressed reflector lamp (such as a PAR lamp). Measured in candelas. See also Candela.

### **Ceramic Metal Halide (CMH®)**

A type of metal halide lamp that uses a ceramic material for the arc tube instead of glass quartz, resulting in better color rendering (>80 CRI) and improved lumen maintenance. GE ConstantColor® CMH® lamps feature a 3-piece arc tube design that delivers terrific color consistency and lamp reliability.

### **ChromaFit®**

A GE brand name for metal halide lamps designed to operate on HPS ballasts, allowing a user to switch from the yellowish color of HPS to the white color of metal halide without retrofitting ballasts. These products are available in both quartz metal halide and ceramic metal halide (CMH) versions.

### **Coefficient of Utilization (CU)**

In general lighting calculations, the fraction of initial lamp lumens that reach the work plane. CU is a function of luminaire efficiency, room surface reflectances and room shape.

### **Color Rendering Index (CRI)**

An international system used to rate a lamp's ability to render object colors. The higher the CRI (based upon a 0-100 scale) the richer colors generally appear. CRI ratings of various lamps may be compared, but a numerical comparison is only valid if the lamps are close in color temperature. CRI differences among lamps are not usually significant (visible to the eye) unless the difference is more than 3 -5 points.

### **Color Temperature (Correlated Color Temperature - CCT)**

A number indicating the degree of "yellowness" or "blueness" of a white light source. Measured in kelvins, CCT represents the temperature an incandescent object (like a filament) must reach to mimic the color of the lamp. Yellowish-white ("warm") sources, like incandescent lamps, have lower color temperatures in the 2700K - 3000K range; white and bluish-white ("cool") sources, such as cool white (4100K) and natural daylight (6000K), have higher color temperatures. The higher the color temperature the whiter, or bluer, the light will be.

### **Compact Fluorescent Lamp (CFL)**

The general term applied to fluorescent lamps that are single-ended and that have smaller diameter tubes that are bent to form a compact shape. Some CFLs have integral ballasts and medium or candelabra screw bases for easy replacement of incandescent lamps.

### **ConstantColor®**

A GE registered name for lamp families that show very little color shift over life, such as GE's Precise® MR16 lamps and GE's ceramic metal halide (CMH®) lamps.

### **Cost of Light**

Usually refers to the cost of operating and maintaining a lighting system on an ongoing basis. The 88-8-4 rule states that (typically) 88% is the cost of electricity, 8% is labor and only 4% is the cost of lamps.



## GLOSSARY OF TERMS

**CovRGuard®**

A lamp encased by a sleeve made of the highest quality GE Lexan® plastic and sealed using a patented process. The Lexan covering helps contain glass fragments if the lamp breaks.

**Diamond Precise®**

Diamond Precise® is the GE trade name for its line-voltage MR16 ConstantColor® halogen lamp. An integral ballast and a medium screw base enable Diamond Precise® lamps to operate on standard (120 volt) circuits. The MR16 technology of Diamond Precise® allows a tighter, more intense beam than can be attained by the 50-watt PAR20 and R20 types it's designed to replace, even though the lumen output is significantly less by comparison.

**Discharge Lamp**

A lamp where light is emitted from an electrical discharge between two electrodes as opposed to a filament lamp. Examples are: Fluorescent lamps and HID (High Intensity Discharge) lamps like Metal Halide, Mercury and High Pressure Sodium. All discharge lamps require some kind of current-limiting device, e.g. a ballast to operate them.

**Ecolux®**

A term for GE lamps that pass the TCLP test. See TCLP.

**Edison**

GE's trademark for a wide range of lighting products.

**Efficacy**

See Luminous Efficacy.

**e-HID ballast see Electronic HID Ballast****Electrode**

In a discharge lamp the arc is struck between two protruding metal terminals in the chamber. These are called electrodes. The negative electrode which emits electrons to fuel the electrical discharge is called the cathode.

**Electrodeless Lamp**

See Induction Lighting and GENURA®.

**Electromagnetic Ballast**

See Magnetic Ballast.

**Electromagnetic Spectrum**

A continuum of electric and magnetic radiation that can be characterized by wavelength or frequency. Visible light encompasses a small part of the electro-magnetic spectrum in the region from about 380 nanometers (violet) to 770 nanometers (red) by wavelength.

**Electromagnetic Interference (EMI)**

High frequency electronic ballasts and other electronic devices can produce a small amount of radio waves that can interfere with radio and TV. Federally-mandated requirements must be met for EMI levels before an electronic device is considered FCC compliant. (FCC is the Federal Communications Commission)

**Electronic Ballast**

A short name for a fluorescent or HID high frequency electronic ballast. Electronic ballasts use solid state electronic components and typically operate fluorescent lamps at frequencies in the range of 25-35 kHz. The benefits are: increased lamp efficacy, reduced ballast losses and lighter, smaller ballasts compared to electro-magnetic ballasts. Electronic ballasts may also be used with HID lamps.

**Electronic HID Ballast**

An electronic ballast capable of operating an HID lamp. GE's Ultramax® (electronic HID ballast operates Pulse Arc® (metal halide) and CMH® (ceramic metal halide) lamps between 250W and 400W and provides higher efficiency and significantly improved lumen maintenance over magnetic ballasts.

**Elliptical Reflector (ER) Lamp**

An incandescent lamp with a built-in elliptically-shaped reflecting surface. This shape produces a focal point directly in front of the lamp which reduces light absorption in some types of luminaires. It is particularly effective at increasing the efficiency of baffled downlights.

**Enclosed Fixtures****Energy Policy Act (EPACT)**

Comprehensive energy legislation passed by the U.S. Congress in 2005. The lighting portion includes minimum energy efficacy requirements for many lamp and ballast components, bans ballasts for mercury lamps from 2008 on and provides significant tax incentives in 2006 and 2007 for buildings retrofitted or constructed with low lighting power densities (watts per square foot).

**Energy Star®**

US Department of Energy (DOE) designation for products meeting certain energy efficiency and performance standards. Among manufacturers of Compact Fluorescent Lamps, GE has the largest number of Energy Star® products as listed on the Federal Government's website.

**EOL (End-of-Life Protection)**

A circuit that senses that a lamp has reached end of life (compact fluorescent lamps and small diameter linear fluorescent lamps) and turns off power to the lamp. Continuing to power the lamp beyond end of life can result in overheating of the lamp ends.

**Federal Communications Commission (FCC)**

The U.S. Federal agency that regulates emissions in the radio frequency portion of the electromagnetic spectrum. Part 18 of the FCC rules specifies electromagnetic interference (EMI) from lighting devices operating at frequencies greater than 9 kilohertz (kHz). Typical electronically-ballasted compact fluorescent lamps operate in the 24 – 100 kHz frequency range.

**Field Angle**

The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 10% of maximum. See Beam Angle.

**Fluorescent HO**

And VHO lamps require special ballasts that generate higher currents than standard ballasts and operate the lamps at higher wattage than standard lamps. These lamps are generally less efficient than the standard product. Metal Halide HO and XHO lamps operate on the same ballasts as standard lamps and at the same wattage but are more efficient and produce higher light output than standard lamps.

**Fluorescent Lamp**

A high efficiency lamp utilizing an electric discharge through low pressure mercury vapor to produce ultra-violet (UV) energy. The UV excites phosphor materials applied as a thin layer on the inside of a glass tube which makes up the structure of the lamp. The phosphors transform the UV to visible light.

**Footcandle (fc)**

A unit of illuminance or light falling onto a surface. It stands for the light level on a surface one foot from a standard candle. One footcandle is equal to one lumen per square foot. See also Lux.

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## Appendix

### **Full Spectrum Lighting**

A marketing term, typically associated with light sources that are similar to some forms of natural daylight (5000K and above, 90+ CRI), but sometimes more broadly used for lamps that have a smooth and continuous color spectrum.

### **Genura®**

GE's electrodeless compact fluorescent lamp, Genura®, uses induction to power the discharge. The chamber generates UV (just like a discharge in a regular fluorescent lamp) that is converted by phosphors to visible light. Because Genura® uses no electrodes, the life of this unique reflector lamp is longer than typical compact fluorescent products. See Induction Lighting.

### **Glare**

Visual discomfort caused by excessive brightness is called discomfort glare. If task performance is affected it is called disability glare. Glare can be direct glare or indirect (reflected) glare.

### **Halogen Lamp**

A halogen lamp is an incandescent lamp with a filament that is surrounded by halogen gases, such as iodine or bromine. Halogen gases allow the filaments to be operated at higher temperatures and higher efficacies. The halogen participates in a tungsten transport cycle, returning tungsten to the filament and prolonging lamp life. All halogen lamps have a tungsten filament and, often, a quartz envelope.

### **Halogen-IR® (HIR) Lamp**

GE designation for high-efficiency tungsten halogen lamps. HIR lamps utilize shaped filament tubes coated with numerous layers of materials that transmit light but reflect the heat (infrared) back onto the filament. This reduces the power needed to keep the filament hot.

### **Harmonic Distortion see Total Harmonic Distortion (THD)**

### **Hertz**

Unit of frequency of vibration, denoting cycles per second.

### **Highbay Lighting**

Lighting designed for (typically) industrial locations with a ceiling height of 25 feet and above.

### **High-Intensity Discharge (HID) Lamp**

A general term for mercury, metal halide (GE ConstantColor® CMH®, Multi-Vapor®, MXR or Arcstream®) and high-pressure sodium (GE Lucalox®) lamps. HID lamps contain compact arc tubes which enclose various gases and metal salts operating at relatively high pressures and temperatures.

### **High Output/Very High Output (HO, VHO) Lamps**

Designation for lamps generating more light than standard lamps.

### **High-Pressure Sodium (HPS) Lamp**

HPS lamps are high intensity discharge light sources that produce light by an electrical discharge through sodium vapor operating at relatively high pressures and temperatures. GE markets these lamps under the trade name of Lucalox®.

### **Hot Restart Time**

If there is a momentary power interruption and the HID lamp goes out, there will be a delay of 10 to 15 minutes before the lamp has cooled down sufficiently to start again. This is called the Hot Restart time. PulseArc® lamps have a significantly shorter Hot Restart time (typically 3-5 minutes) than standard metal halide lamps. Lucalox® Standby lamps will start up immediately while standard Lucalox® lamps require a few minutes.

### **Ignitor**

An electronic device providing a high voltage pulse to initiate an electrical discharge. Typically, the ignitor is paired with or is a part of the ballast.

### **Illuminance**

The "density" of light (lumens/area) incident on a surface; i.e. the light level on a surface. Illuminance is measured in footcandles or lux.

### **Incandescent Lamp**

A light source that generates light utilizing a thin filament wire (usually of tungsten) heated to white heat by an electric current passing through it.

### **Indirect Lighting**

The method of lighting a space by directing the light from luminaires upwards towards the ceiling. The light scattered off the ceiling produces a soft, diffuse illumination for the entire area.

### **Induction Lighting**

Gases can be excited directly by radio-frequency or microwaves from a coil that creates induced electromagnetic fields. This is called induction lighting and it differs from a conventional discharge, which uses electrodes to carry current into the arc. Induction lamps have no electrodes inside the chamber and generally, therefore, have longer life than standard lamps. Genura® is an example of an induction lamp.

### **Infrared Radiation**

Electromagnetic energy radiated in the wavelength range of about 770 to 1,000,000 nanometers. Energy in this range cannot be seen by the human eye, but can be sensed as heat by the skin.

### **Input Watts, Input Volts**

These refer to the ballast: the input watts represents the total power consumption of the ballast. It includes the power to the lamps and the power dissipated in the ballast. The input volts of the ballast is the line voltage the ballast is designed for, e.g. 120 volts or 277 volts.

### **Instant Start**

A type of ballast designed to start fluorescent lamps as soon as the power is applied. Most T8 fluorescent lamps are being operated on electronic instant-start ballasts. Slimline fluorescent lamps operate only on instant start circuits.

### **Kelvins see Color Temperature**

### **Kilowatt (kW)**

A measure of electrical power equal to 1000 watts.

### **Kilowatt Hour (kWh)**

The standard measure of electrical energy and the typical billing unit used by electrical utilities for electricity use. A 100-watt lamp operated for 10 hours consumes 1000 watt-hours (100 x 10) or one kilowatt-hour. If the utility charges \$.10/kWh, then the electricity cost for the 10 hours of operation would be 10 cents (1 x \$.10).

### **Lamp**

The term used to refer to the complete light source package, including the inner parts as well as the outer bulb or tube. "Lamp", of course, is also commonly used to refer to a type of small light fixture such as a table lamp.

### **Life**

See Rated Lamp Life.



## GLOSSARY OF TERMS (CONTINUED)

### Light

Radiant energy that can be sensed or seen by the human eye. Visible light is measured in lumens.

### Light Center Length (L.C.L.)

The distance between the center of the filament, or arc tube, and a reference plane — usually the bottom of the lamp base. See L.C.L. Reference Plane Location chart on page A-1.

### Light Emitting Diode (LED)

A solid that directly converts electrical impulses into light. Some LED's today incorporate fluorescent materials to change the color characteristics of the emitted light.

### Light Loss Factor (LLF)

The product of all factors that contribute to lowering the illumination level including reflector degradation, dirt, lamp depreciation over time, voltage fluctuations, temperature effects, burn-out factor, etc.

### Lucalox®

The GE brand name for high-pressure sodium lamps.

### Lumen

A measure of luminous flux or quantity of light emitted by a source. For example, a dinner candle provides about 12 lumens. A 60-watt Soft White incandescent lamp provides 840 lumens.

### Lumen Depreciation, Lumen Maintenance

A measure of how well a lamp maintains its light output over time. It may be expressed numerically or as a graph of light output vs. time.

### Lumens Per Watt (lpW)

A ratio expressing the luminous efficacy of a light source.

Typical lamp efficacies:

|                                  |         |
|----------------------------------|---------|
| Edison's first lamp .....        | 1.4 lpW |
| Incandescent lamps .....         | 10-40   |
| Halogen incandescent lamps ..... | 20-45   |
| Fluorescent lamps .....          | 35-105  |
| Mercury lamps .....              | 50-60   |
| Metal halide lamps .....         | 60-120  |
| High-pressure sodium lamps ..... | 60-140  |

**Note:** The values above for discharge lamps do not include the effect of the ballasts, which must be used with those lamps. Taking ballast losses into account reduces "system" or lamp ballast efficacies typically by 10-20% depending upon the type of ballast used.

### Luminaire

A complete lighting unit consisting of a lamp (or lamps), ballast (or ballasts) as required together with the parts designed to distribute the light, position and protect the lamps and connect them to the power supply. A luminaire is often referred to as a fixture.

### Luminaire Efficiency

The ratio of total lumens emitted by a luminaire to those emitted by the lamp or lamps used in that luminaire.

### Luminance

A photometric measure of "brightness" of a surface as seen by the observer, measured in candelas per square meter.

### Luminous Efficacy

The light output (lumens) of a light source divided by the total power input (watts) to that source. It is expressed in lumens per watt. See Lumens per Watt.

### Lux (lx)

A unit of illuminance or light falling onto a surface. One lux is equal to one lumen per square meter. Ten lux approximately equals one footcandle. See also Footcandle.

### Magnetic Ballast

A ballast used with discharge lamps that consists primarily of transformer-like copper windings on a steel or iron core. See also Electronic Ballasts.

### Maximum Overall Length (M.O.L.)

The end-to-end measurement of a lamp, expressed in inches or millimeters.

### Mean Lumens

The average light output of a lamp over its rated life. Based on the shape of the lumen depreciation curve, for fluorescent and metal halide lamps, mean lumens are measured at 40% of rated lamp life. For mercury, high pressure sodium and incandescent lamps, mean lumen ratings refer to lumens at 50% of rated lamp life. See Lumen Maintenance.

### Mercury Lamp

A high-intensity discharge light source operating at a relatively high pressure (about 1 atmosphere) and temperature in which most of the light is produced by radiation from excited mercury vapor. Phosphor coatings on some lamp types add additional light and improve color rendering.

### Metal Halide Lamp

A high-intensity discharge light source in which the light is produced by the radiation from mercury, plus halides of metals such as sodium, scandium, indium and dysprosium. Some lamp types may also utilize phosphor coatings. GE trade names include: Multi-Vapor®, ConstantColor® CMH®, PulseArc®, Staybright®, Watt-Miser®, ChromaFit® and Arcstream®.

### Mortality Curve

Lamps have a rated or expected life but individual failures occur earlier and some lamps will last longer. The mortality curve depicts the expected percent surviving in a group of lamps at various points between zero hours and rated life or beyond. The curve starts with 100% at zero hours and goes to 50% surviving at the rated life (e.g. 3000 hours or 20,000 hours, etc.) However, the shape of the curve between these two end points can vary depending on the lamp type.

### Multi-Vapor®

Multi-Vapor® A GE brand name for metal halide lamps.

### Nanometer

A unit of wavelength equal to one billionth of a meter.

### National Electric Code (NEC)

A nationally accepted electrical installation code to reduce the risk of fire, developed by the National Fire Protection Association.

### PAR Lamp

PAR is an acronym for parabolic aluminized reflector. A PAR lamp, which may utilize either an incandescent filament, a halogen filament tube or a HID arc tube, is a precision pressed-glass reflector lamp. PAR lamps rely on both the internal reflector and prisms in the lens for the control of the light beam.

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## Appendix

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### ***Parallel Lamp Operation/Parallel Wiring***

Refers to ballasts that employ multiple output current paths from a single ballast to allow lamps to operate independent of one another, allowing other lamps operated by the ballast to remain lit should companion lamp(s) fail. (See Series Lamp Operation).

---

### ***Phosphor***

An inorganic chemical compound processed into a powder and deposited on the inner glass surface of fluorescent tubes and some mercury and metal-halide lamp bulbs. Phosphors are designed to absorb short wavelength ultraviolet radiation and to transform and emit it as visible light.

---

### ***Photometry***

The measurement of light and related quantities.

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### ***Photopic see Scotopic/Photopic***

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### ***Power Factor (PF)***

A measure of the phase difference between voltage and current drawn by an electrical device, such as a ballast or motor. Power factors can range from 0 to 1.0 with 1.0 being ideal. Power factor is sometimes expressed as a percent. Incandescent lamps have power factors close to 1.0 because they are simple "resistive" loads. The power factor of a fluorescent and HID lamp system is determined by the ballast used. "High" power factor usually means a rating of 0.9 or greater. Power companies may penalize users for using low power factor devices.

---

### ***Precise®***

The GE trade name for the compact MR-16 and MR-11 low-voltage halogen dichroic cool beam reflectorized spot and flood lamps.

---

### ***Preheat Circuit***

A type of fluorescent lamp-ballast circuit used with the first commercial fluorescent lamp products. A push button or automatic switch is used to preheat the lamp cathodes to a glow state. Starting the lamp can then be accomplished using simple "choke" or reactor ballasts.

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### ***Programmed Rapid Start see UltraStart***

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### ***PulseArc®***

GE description for a type of metal halide lamp that provides improved lumen maintenance for longer useful life and extended relamp cycles. These products are designed to operate on ballasts that have ignitors to help with lamp starting.

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### ***Quartz-Halogen Lamp see Halogen Lamp***

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### ***Quartzline®***

A GE registered trademark term for some types of halogen lamps.

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### ***Rapid Start Circuit***

A fluorescent lamp-ballast circuit that utilizes continuous cathode heating, while the system is energized, to start and maintain lamp light output at efficient levels. Rapid start ballasts may be either electromagnetic, electronic or of hybrid designs. Full-range fluorescent lamp dimming is only possible with rapid start systems.

---

### ***Rated Lamp Life***

For most lamp types, rated lamp life is the length of time of a statistically large sample between first use and the point when 50% of the lamps have died. It is possible to define "useful life" of a lamp based on practical considerations involving lumen depreciation and color shift.

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### ***Reflector Lamp (R)***

A light source with a built-in reflecting surface. Sometimes, the term is used to refer specifically to blown bulbs like the "R" and "ER" lamps; at other times, it includes all reflectorized lamps like PAR and MR.

---

### ***Reveal®***

GE's product family of incandescent lamps with the element Neodymium added to the glass bulb. Neodymium filters out much of the yellow light produced by ordinary lamps. Less yellow means whites look whiter and colors appear more vibrant in spaces lighted with Reveal lamps.

---

### ***Scotopic/Photopic (S/P) Ratio***

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic vision) and cones to yellow light (Photopic vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. S/P is calculated as the ratio of scotopic lumens to photopic lumens for the light source on an ANSI reference ballast. Cooler sources (higher color temperatures lamps) tend to have higher values of the S/P Ratio compared to warm sources.

---

### ***Series Lamp Operation***

Refers to ballasts that employ a single current path passing through all lamps operated by the ballast. If one lamp should fail, companion lamps operated by the same ballasts will also extinguish or dim.

---

### ***Specification Series (SP) Colors***

Energy-efficient, all-purpose tri-phosphor fluorescent lamp colors that provide good color rendering. The CRI for SP colors is 70 or above and varies by specific lamp type. See Lamp Color Chart on page A-10.

---

### ***Specification Series Deluxe (SPX) Colors***

Energy-efficient tri-phosphor fluorescent lamp colors that provide better color rendering than Specification Series (SP) colors. The CRI for SPX colors is 80 or higher and varies by specific lamp type. All GE CFL products use SPX phosphors. See Lamp Color Chart on page A-10.

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### ***Spectral Power Distribution (SPD)***

A graph of the radiant power emitted by a light source as a function of wavelength. SPD's provide a visual profile or "finger print" of the color characteristics of the source throughout the visible part of the spectrum.

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### ***Spiral® Lamp***

GE trademark for its helical family of high-efficiency, long-life compact fluorescent lamps.

---

### ***Starcoat®***

GE's special barrier coating applied on the inside of all GE T8 fluorescent lamps, as well as some other lamp types, to enhance lamp life and deliver superior lumen maintenance.

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### ***Starting Temperature (Minimum)***

The minimum ambient temperature at which the lamp will start reliably on the ballast.

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### ***TCLP Test***

The Toxicity Characteristic Leaching Procedure (TCLP) test, specified in the Resource Conservation and Recovery Act (RCRA) of 1990, is used to characterize fluorescent lamp waste as hazardous or nonhazardous waste. The TCLP test measures the ability of the mercury and/or lead in a lamp to leach from a landfill into ground water.

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**GLOSSARY OF TERMS (CONTINUED)****Total Harmonic Distortion (THD)**

A measure of the distortion of the input current on alternating current (AC) power systems caused by higher order harmonics of the fundamental frequency (60Hz in North America). THD is expressed in percent and may refer to individual electrical loads (such as a ballast) or a total electrical circuit or system in a building. ANSI C82.77 recommends THD not exceed 32% for individual commercial electronic ballasts, although some electrical utilities may require lower THD's on some systems. Excessive THD's on electrical systems can cause efficiency losses as well as overheating and deterioration of system components.

**Troffer**

A long, recessed lighting unit, usually installed in an opening in the ceiling.

**Tungsten Halogen Lamp see Halogen Lamp****Ultra**

GE designation for lamps and ballasts belonging to the new generation of energy-saving fluorescent systems.

**UltraMax®**

The designation for GE's electronic ballasts for both linear fluorescent systems and for HID systems (see "Electronic HID Ballast"). The family of high-efficiency GE instant-start electronic linear fluorescent ballasts are designed to optimize GE's T8 Ultra lamps for enhanced system energy savings. UltraMax ballasts have a low lamp current crest factor and virtually read and adapt to incoming voltage from 108V to 305V. Other features include UL Type CC Anti-Arc Rating and anti-striation control to eliminate lamp striations and spiraling.

**UltraStart**

GE's line of Programmed Rapid Start ballasts, for both T8 and T5 lamps, made specifically for applications where lamps are switched on and off frequently. The "ultra soft" starting associated with these ballasts ensures long lamp life even in frequently switched applications. Additional features include high efficiency and start times comparable to Instant Start ballasts, and series operation of lamps.

**Ultraviolet (UV) Radiation**

For practical purposes, any radiant energy within the range of 100-380 nanometers. It is beyond the blue or violet region of the spectrum, and is invisible to the eye just like the silent "ultrasound" dog whistle is inaudible to the ear.

UV is divided into 3 regions:

UVA..... 100 to 280 nm

UVB..... 280 to 315 nm

UVC..... 315 to 400 nm

Some wavelengths (180-220) produce ozone, some (220-300) are bactericidal, some (280-320) erythematous (redden human skin); others (320-400) cause secondary luminance (black light).

**Ultra Watt-Miser®**

GE's family of energy-saving T8 fluorescent lamps.

**Underwriter's Lab (UL)**

A private organization which tests and lists electrical and other equipment for electrical and fire safety standards. Generally luminaires are UL listed, not lamps (except for CFL lamps with built-in ballasts.)

**Voltage**

A measurement of the electromotive force in an electrical circuit or device expressed in volts. Voltage can be thought of as being analogous to the pressure in a waterline.

**Voltage Surge**

Transient spikes in line voltage that can be harmful to electronic equipment like computers and electronic ballasts. Surge suppressors are often used to protect against such transients.

**Warm-up Time**

HID lamps typically take a few minutes to warm-up to full brightness after starting.

**Watt**

A unit of electrical power. Lamps are rated in watts to indicate the rate at which they consume energy. See Kilowatt Hour.

**Watt-Miser®**

A Watt-Miser® lamp is a term used by GE to indicate a reduced-wattage lamp with performance characteristics (life, light output, etc.) such that it can usually directly replace a higher-wattage product. Watt-Miser® lamps are available in a wide range of incandescent, fluorescent and HID lamp types.

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Appendix

# the three of **L**'s Lighting costs

## ELECTRICITY IS THE BIGGEST CHUNK OF YOUR LIGHTING COSTS

Averaging across different lamp types and systems, we estimate that only \$1 of every \$25 goes toward lamps, \$2 toward labor, and **\$22 toward electricity!**

The simplest way to save energy is to retrofit with energy-efficient products and systems from GE Lighting: your #1 energy-saving choice!

And remember... every watt reduced in your lighting system results in a one-third watt reduction in your A/C load (while A/C is running).

Labor 8%

Electricity 88%

Lamps 4%

Each F32T8 replaced with an F32T8/WM saves \$3.20 per lamp in energy over the life of the lamp.

Each 4-lamp T12 fixture retrofitted with GE's latest UltraMax™ system saves \$27 per year in energy costs, with nearly the same light output (3% reduction in lumens: T12/WM on standard magnetic ballast vs. T8 on 0.77 BF electronic instant start ballast).

Energy-Saving Examples  
(assuming 4500 hours per year, \$0.10 per kWh, and excluding A/C savings)

MVR400/U retrofitted with MVR360/STB/WM saves \$80 per fixture in energy over the life of the lamp.

Each 100W incandescent bulb replaced with a 26W CFL will save \$33 per year per socket in energy costs.

Each 90W PAR halogen lamp replaced with a 70W PAR HIR™ lamp will save \$9 per year in energy costs, with nearly the same light output (4% reduction in lumens).

## REDUCE LABOR COSTS WITH PLANNED MAINTENANCE/GROUP RELAMPING

**Schedule your lighting maintenance instead of simply waiting for lamps to fail!**

In any large installation, failure rates increase with age in a predictable way. The **optimal** point for group relamping is typically when 8% to 12% of lamps have failed, usually around two-thirds of rated life. At this point, both lumen output and lamp color may have deteriorated, yet the cost of electricity remains at "full price."

The per-lamp labor cost of installing new lamps is usually significantly less when an entire site is relamped, compared to the per-lamp labor cost of replacing lamps one at a time.

The result? The facility gets a face-lift and the maintenance costs over the next two or three years are generally significantly reduced. **Contact your GE Account Manager or GE Distributor to understand the full benefits of planned maintenance and to get set up on a money-saving group relamping schedule.**



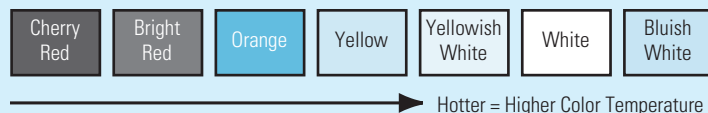
# selecting the **best** **color** lamp

## DESCRIPTIONS: "WARM" OR "COOL"

When talking about white light sources (or about white paint) we use the descriptions "warm" and "cool." White light with a yellowish tinge, reminiscent of candlelight and fireplaces, is called "warm white." Incandescent lamps produce a warm white color. Bluish white, reminiscent of moonlight on cold snow, is considered "cool white." Fluorescent lamps can produce warm white or cool white, or anywhere in-between, depending on the mix of phosphors used.

## CORRELATED COLOR TEMPERATURE (CCT)

Correlated Color Temperature is a way of describing the degree of "yellowness" or "blueness" of a white light source. We relate the light source to the color of a hypothetical piece of hot metal. A piece of steel or tungsten as it is heated, will progressively change color in the sequence shown below:



When we say a lamp has a color temperature of 2700K—typical of incandescent lighting—it simply means that a piece of metal heated to a temperature of 2700 kelvins (which is about 3000°C or 5400°F) would mimic the color of the lamp. Such a source would be yellowish-white. In contrast, the color of a lamp at 6000K—typical of daylight entering through a window on a sunny day—can be mimicked by doubling the temperature of the hot metal piece to 6000 kelvins. This is significantly bluer or "cooler" than the light of incandescent lamps. Note that higher CCT refers to sources described as "cooler."

Generally, 4000K and above is considered "cool white", 3200K and below is "warm white", and 3500K is "neutral white."

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## BETTER COLOR RENDERING FOR BETTER APPEARANCE

There is no such thing as the "true" color of any material; the perceived color is a function of the light under which the material is viewed and the reflectance characteristics of the material itself. However, we can make a general statement: the higher the Color Rendering Index (CRI) of a light source (also denoted by  $R_a$ ) the better—and more natural—colors typically appear under the light source.

In measuring CRI, scientists compare how eight specific colors appear under the source to how these same colors appear under a reference source. However, there are two reference sources: incandescent lighting is the reference for warm color lamps and daylight is the reference for cool color lamps. In this system, both incandescent lamps and daylight are considered to have "perfect" CRI's of nearly 100 even though, as we know, materials appear quite different when viewed under these light sources. These two sources are very different in color temperature (see below) although both have CRI's close to 100. CRI is, therefore, meaningful in comparing lamps that are close in color temperature.

CRI is not a perfect measure, but it is still useful as an indicator of the quality of light from a source.

| Typical Color Indicators for Various Lamps                                                  | Correlated Color Temperature | Color Rendering Index |
|---------------------------------------------------------------------------------------------|------------------------------|-----------------------|
| <b>INCANDESCENT LAMPS</b>                                                                   |                              |                       |
| Typical                                                                                     | 2500-2800K                   | 97-100                |
| <b>HALOGEN LAMPS</b>                                                                        |                              |                       |
| Typical                                                                                     | 2800-3000K                   | 97-100                |
| <b>FLUORESCENT LAMPS (ordered by CCT)</b>                                                   |                              |                       |
| C75 "Chroma Series"                                                                         | 7500K                        | 90 +                  |
| SPX65 (865)                                                                                 | 6500K                        | 80 +                  |
| SP65 (765)                                                                                  | 6500K                        | 70 +                  |
| C50 "Chroma Series"                                                                         | 5000K                        | 90 +                  |
| SPX50 (850)                                                                                 | 5000K                        | 80 +                  |
| SP50 (750)                                                                                  | 5000K                        | 70 +                  |
| SPX41 ( 841)                                                                                | 4100K                        | 80 +                  |
| SP41 (741)                                                                                  | 4100K                        | 70 +                  |
| Cool White                                                                                  | 4100K                        | 62                    |
| SPX35 (835)                                                                                 | 3500K                        | 80 +                  |
| SP35 (735)                                                                                  | 3500K                        | 70 +                  |
| SPX30 (830)                                                                                 | 3000K                        | 80 +                  |
| SP30 (730)                                                                                  | 3000K                        | 70 +                  |
| Warm White                                                                                  | 3000K                        | 50                    |
| covRfresh                                                                                   | 2750K                        | 87                    |
| SPX27 (827)                                                                                 | 2700K                        | 80 +                  |
| <i>Note: Some 4' T8 "SP" lamps, including reduced wattage types, may have a CRI &gt;80.</i> |                              |                       |
| <b>HIGH PRESSURE SODIUM LAMPS</b>                                                           |                              |                       |
| Lucalox®                                                                                    | 1900-2100K                   | 22                    |
| Deluxe Lucalox®                                                                             | 2200K                        | 65                    |
| <b>METAL HALIDE LAMPS</b>                                                                   |                              |                       |
| Standard and PulseArc® MVR Multi-Vapor®                                                     | 3000-4300K                   | 65-75                 |
| MXR Multi-Vapor®                                                                            | 3200-3500K                   | 65-70                 |
| Arcstream®                                                                                  | 3000-6000K                   | 75-90                 |
| Multi-Vapor® ChromaFit™                                                                     | 4000-4500K                   | 65-70                 |
| <b>CERAMIC METAL HALIDE LAMPS</b>                                                           |                              |                       |
| CMH®                                                                                        | 3000-4200K                   | 80-93                 |
| CMH® ChromaFit™                                                                             | 3000K                        | 85                    |